KAI ZHENG

Department of Informatics
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Education

Ph.D., Information Systems, Carnegie Mellon University, Pittsburgh, PA, 2006

> Dissertation: "*Design, Implementation, User Acceptance, and Evaluation of a Clinical Decision Support System for Evidence-based Medicine Practice*;" Advisors: Herbert S. Diamond, Michael P. Johnson (co-chair), David Krackhardt, Rema Padman (co-chair); Recipient, *The William W. Cooper Doctoral Dissertation Award in Management or Management Science*

B.E., Electrical Engineering, Shanghai Jiaotong University, Shanghai, China, 1999

Positions

Current

- Director, Health Data Access, Institute for Precision Health, University of California, Irvine, Irvine, CA, 2025–present (Co-Director, 2021–2025)

- Adjunct Professor, Department of Epidemiology & Biostatistics, Joe C. Wen School of Population & Public Health, University of California, Irvine, Irvine, CA, 2025–present

- Director, The UCI Public Health Informatics & Technology (PHIT) Workforce Development Program, University of California, Irvine, Irvine, CA, 2021–present

- Adjunct Professor, Department of Psychiatry, Michigan Medicine, University of Michigan, Ann Arbor, MI, 2021–present

- Professor, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, Irvine, CA, 2020–present

- Adjunct Professor, Department of Emergency Medicine, School of Medicine, University of California, Irvine, Irvine, CA, 2020–present

- Director, Center for Biomedical Informatics, Institute for Clinical and Translational Science (ICTS), University of California, Irvine, Irvine, CA, 2017–present (Co-Director, 2016–2017)

Other Affiliations

- Affiliated Faculty, Institute for Future Health, University of California, Irvine, CA, 2020–present

- Program Member, Chao Family Comprehensive Cancer Center, UCI Health, University of California, Irvine, CA, 2019–present

Past

- Chief Research Information Officer, Office of Data and Information Technology, University of California, Irvine, Irvine, CA, 2021–2025

- Co-Lead, Bio-Repository and Biomedical Informatics Core, Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), Ann Arbor, MI, 2011–2015

- Associate Professor, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, Irvine, CA, 2016–2020

- Adjunct Associate Professor, Department of Emergency Medicine, School of Medicine, University of California, Irvine, Irvine, CA, 2016–2020

- Research Health Science Specialist, Health Services Research and Development, Veterans Affairs San Diego Healthcare System, San Diego, CA, 2013–2018

- Director, Health Informatics Program, Schools of Information and Public Health, University of Michigan, Ann Arbor, MI, 2015 (Interim Director, 2014–2015)

- Adjunct Professor, Peking University Clinical Research Institute, Peking University Health Science Center, Beijing, China, 2013–2015

- Associate Professor, Department of Health Management and Policy, School of Public Health; Associate Professor, School of Information; Associate Adjunct Professor, Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, Ann Arbor, MI, 2012–2015

- Faculty Affiliate, Kidney Epidemiology and Cost Center, University of Michigan, Ann Arbor, MI, 2012–2015

- Visiting Associate Professor, Center for Biomedical Informatics Research, School of Medicine, Stanford University, Stanford, CA, 2012–2013

- Faculty Affiliate, Institute for Healthcare Policy and Innovation, University of Michigan, Ann Arbor, MI, 2011–2015

- Faculty Affiliate, Center for Entrepreneurship, University of Michigan, Ann Arbor, MI, 2010–2015

- Faculty, Biomedical Informatics Core (2007–2015) & Patient Recruitment Core (2011–2015), Michigan Institute for Clinical and Health Research, University of Michigan, Ann Arbor, MI

- Faculty Affiliate, Center for Computational Medicine and Bioinformatics, University of Michigan, Ann Arbor, MI, 2006–2015

- Assistant Professor, Department of Health Management and Policy, School of Public Health (2006–2012); Assistant Professor, School of Information (2006–2012); Assistant Adjunct Professor, Division of Nursing Business and Health Systems, School of Nursing (2009–2012), University of Michigan, Ann Arbor, MI

- System Analyst (internship), Center for Appalachian Network Access, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, 2004

- Research Assistant and Technical Lead, Department of Medicine, Western Pennsylvania Hospital, Pittsburgh, PA, 2001–2006

- Business Analyst (internship), Mckinsey & Company, Beijing, China, 1999

- Webmaster (part-time), Global Sources Information Centre, China Europe International Business School (CEIBS), Shanghai, China, 1997–1999

Honors & Awards

- Yawen Guo, Student Paper Competition Finalist, The American Medical Informatics Association 2024 Annual Symposium (AMIA '24), San Francisco, 2024

- Yawen Guo, Student Paper Competition Finalist & Second Place, The American Medical Informatics Association 2022 Annual Symposium (AMIA '22), Washington DC, 2022

- Diana Forsythe Prize Finalist, with Matthew Willis, Leah Hein, Zhaoxian Hu, Rajiv Saran, Marissa Argentina, Jennifer Bragg-Gresham, Sarah Krein, Brenda Gillespie, & Tiffany Veinot, 2022

- Noyce Faculty Fellow, The Robert Noyce Teacher Scholarship Program, Irvine Initiative in AI, Law, and Society, University of California, Irvine, 2022

- **Chair, Clinical Information Systems Working Group, American Medical Informatics Association (AMIA), 2019–2020**

- Tera Reynolds, Outstanding Student Paper in the Field of Consumer and Pervasive Health Informatics, The American Medical Informatics Association 2020 Annual Symposium (AMIA '20), 2020

- Lu He, Student Paper Competition Finalist, The American Medical Informatics Association 2020 Annual Symposium (AMIA '20), Co-advised with Yunan Chen, 2020

- Best Poster Award, with Tingjue Yin & Lu He, The 2019 Southern California Natural Language Processing Symposium (SoCal NLP '19), Los Angeles, CA, 2019

- Lu He, Best Student Paper Nomination, The 2019 World Congress of Medical and Health Informatics (MedInfo '19), Lyon, France, 2019

- Yu Chen, Student Paper Competition Finalist & Outstanding Student Paper in the Field of Consumer and Pervasive Health Informatics, The American Medical Informatics Association 2018 Annual Symposium (AMIA '18), Co-advised with Yunan Chen & Steven Cramer, San Francisco, CA, 2018

- **Elected Fellow of the American Medical Informatics College, 2018**

- Clara Caldeira, Student Paper Competition Finalist & Third Place, The American Medical Informatics Association 2017 Annual Symposium (AMIA '17), Co-advised with Yunan Chen, Washington DC, 2017

- Distinguished Paper Award, with VG Vinod Vydiswaran, Qiaozhu Mei, & David Hanauer, The American Medical Informatics Association 2014 Annual Symposium (AMIA '14), Washington DC, 2014

- Best Poster Award, with Danny Wu, Tiffany Veinot, & David Bradley, The 2014 Workshop on Interactive Systems in Healthcare (WISH '14), Washington DC, 2014

- Best Paper Selection, with Brian Hilligoss, Yearbook of Medical Informatics 2014, International Medical Informatics Association (IMIA), 2014

- Best Paper of the Year, with David Hanauer, John Aberdeen, Samuel Bayer, Benjamin Wellner, Cheryl Clark, & Lynette Hirschman, MITRE Corporation, 2014

- Best Poster Award (Third Place), with David Hanauer, Qiaozhu Mei, Patricia Clark, & Lawrence An, The National Cancer Institute and the Centers of Excellence in Cancer Communication Research (CECCRs) 2013 Grantee Meeting, Ann Arbor, MI, 2013

- Outstanding Poster Award, with Tala Dahbour, Billy McCloskey, Jim Lyddy, Tom Schmitt, Judi Brooks, Angela Lukomski, Beaudry Kock, Katherine Rosenblum, Prachi Shah, Jennifer Smith, Elise Hodges, & Renee Lajiness-O'Neill, Spring Research Symposium, Undergraduate Research Opportunity Program (UROP), University of Michigan, Ann Arbor, MI, 2013

- Best Paper Selection (Paper #29, #57), Yearbook of Medical Informatics 2012, International Medical Informatics Association (IMIA), 2012

- Distinguished Poster Award, with Suresh Bhavnani, Michelle Massey, Elisa Michaud-Hanson, & Chris Weber, The American Medical Informatics Association 2012 Annual Symposium (AMIA '12), Chicago, IL, 2012

- **American Medical Informatics Association (AMIA) New Investigator Award, 2011**

- Best Paper Selection (Paper #30, #38), Yearbook of Medical Informatics 2011, International Medical Informatics Association (IMIA), 2011
- Runner-up, with David Hanauer, Bad Designs on Campus Competition, University of Michigan, Ann Arbor, MI, 2010
- Journal of the American Medical Informatics Association Most Cited Papers 2009–2010
- Distinguished Poster Award Nomination, with Xiaomu Zhou & Mark Ackerman, The American Medical Informatics Association 2009 Annual Symposium (AMIA '09), San Francisco, CA, 2009
- Distinguished Poster Award, with David Hanauer, The American Medical Informatics Association 2008 Annual Symposium (AMIA '08), Washington DC, 2008
- Best Paper Award Nomination, The 2007 World Congress on Health and Biomedical Informatics (MedInfo '07), Brisbane, Australia, 2007
- **The William W. Cooper Doctoral Dissertation Award in Management or Management Science, Carnegie Mellon University, Pittsburgh, PA, 2007**
- Runner-up, First College Web Design Competition, Shanghai, China, 1997

Publications

Asterisk: Student or trainee.

(a) Refereed Journal Papers

J.150 Tang H, Lu YW, Zhang B, Zhang D, Zhou T, Chen J, Lu Y, Lyu T, **Zheng K**, Chen Y. Association of GLP-1 receptor agonist use with psychiatric outcomes in adults with Type 2 Diabetes: a target trial emulation. Diabetes Res Clin Pract. 2025. (forthcoming)

J.149 Lu X, Miller M, Pearce AK, Lam JY, Boussina AE, **Zheng K**, Malhotra A, Nemati S. Comparing high-flow nasal cannula and non-invasive ventilation in critical care: insights from deep counterfactual inference. Npj Health Syst. 2025. (forthcoming)

J.148 Cha BS, Kim J, Eikey EE, Schneider ML, Schueller SM, Stadnick NA, **Zheng K**, Mukamel DB, Sorkin DH. Adult digital mental health tool use from 2019–2022: findings from the California Health Interview Survey. Psychiatr Q. 2025. (23 pages.) DOI: 10.1007/s11126-025-10225-8

J.147 Guo Y,* Wang J,* Hu D,* Tam S, Gilman C, Chow E, Perret D, Pandita D, **Zheng K**. Evaluating ambient AI documentation: effects on work efficiency, documentation burden, and patient-centered care. J Am Med Inform Assoc. 2025;ocaf180. (10 pages.) PMID: 41100159

J.146 He L,* Moldenhauer MR, **Zheng K**, Ma H. Developing, validating, and assessing potential biases of a natural language processing (NLP) pipeline for clinical information extraction from notes of veterans with lymphoid malignancies. J Med Internet Res. 2025;13:e63908. (11 pages.) PMCID: PMC12530692

J.145 Borghouts J, Eikey EV, De Leon C, Schueller SM, Schneider M, Stadnick NA, **Zheng K**, Mukamel DB, Sorkin DH. Characteristics associated with the use of the mindfulness meditation app Headspace in a large public health deployment: cross-sectional survey study. JMIR Form Res. 2025;9:e73457. (17 pages.) PMCID: PMC12413571

J.144 Bonar EE, Kotov M, Bourque C, Carter PM, Clark SJ, Hutton DW, Kidwell KM, King CA, Losman ED, McCabe SE, **Zheng K**, Walton MA. Understanding risk and protective factors associated with opioid misuse among at-risk adolescents and young adults in the emergency department. Drug Alcohol Depend. 2025;275:112814. (18 pages.) PMCID: PMC12357542

J.143 Cho HN,* Sutari S, Lopez A, Bow H, **Zheng K**. SurgeryLSTM: a time-aware neural model for accurate and explainable length of stay prediction after spine surgery. JAMIA Open. 2025;8(4):ooaf079. (9 pages.) PMCID: PMC12292929

J.142 Gross BJ, Donahue A, Ford JS, Lu X, Boussina A, Malhotra A, **Zheng K**, Nemati S, Wardi G. Mortality and antibiotic timing in deep learning-derived surviving sepsis campaign risk groups: a multicenter study. Crit Care. 2025;29(1):302. (12 pages.) PMCID: PMC12257722

J.141 Sakleshpur S, Mowrey W, Green S, Feldman J, Reznik M, Su Z, **Zheng K**, Jariwala SP. Implementing and evaluating the clinical outcomes of an asthma management mobile application. Respir Care. 2025;70(10):1257–66. PMID: 40379484

J.140 Cha BS, Eikey EV, Mukamel DB, Palomares KJ, Schueller SM, Sorkin DH, Stadnick NA, Stoeckl SE, **Zheng K**, Schneider ML. Peer perspectives on challenges encountered during a multi-site digital mental health intervention project. Adm Policy Ment Health. 2025;52(4):603–18. PMCID: PMC12310863

J.139 Morrow K, Datta D, Spiegelman L, Almog R, **Zheng K**, Brown D, Cooper DM. From theory to practice – assessing translation of physical fitness research in the emergency department through machine learning and natural language processing. J Clin Transl Sci. 2025;9(1):e133. (8 pages.) PMCID: PMC12260978

J.138 Ma B, **Zheng K**, Lee FC, Lu Y. Racial disparities in comorbidity patterns of early-onset liver cancer: a machine learning analysis. Cancer Control. 2025;32:10732748251363687. (12 pages.) PMCID: PMC12317173

J.137 Hu D,* Guo Y,* Zhou Y,* Flores L,* **Zheng K**. A systematic review of early evidence on generative AI for drafting responses to patient messages. Npj Health Syst. 2025;2:27. (15 pages.) DOI: 10.1038/s44401-025-00032-5

J.136 Bonar EE, Kidwell K, Chapman L, Walton MA, **Zheng K**, Bourque C, Manderachia D, Robinson OE, Eissa AA, Dailey SE, Dolecki F, Teasdale OD, NanCoff A, Tyner TS, Miller AL, Lin LA. Telehealth engagement and treatment strategies for adults living with alcohol use disorder: a sequential multiple assignment randomized trial protocol. Contemp Clin Trials. 2025;156:108003. (17 pages.) PMCID: PMC12314782

J.135 Lopez N, Herrera K, Carter J, Radom-Aizik S, **Zheng K**, Palmer S, Cooper DM. Mitigation and physical activity behaviors among school-aged children during the SARS-CoV-2 pandemic. J Sch Health. 2025;95(7):522–31. PMID: 40414223

J.134 Frutos AM, Tenforde MW, Sundaresan D, Naleway AL, Irving SA, DeSilva MB, Kharbanda AB, Ong TC, Rao S, **Zheng K**, Gohil SK, Ball SW, Fink RV, Reed C, Garg S, Bozio CH. Influenza-associated hospitalization rates by underlying conditions, 2016–17 to 2019–20: a retrospective cohort study. J Infect Dis. 2025;232(4):e642–50. PMID: 40155312

J.133 Idnay B, Xu Z, Adams WG, Adibuzzaman M, Anderson NR, Bahroos N, Bell DS, Bumgardner C, Campion T, Castro M, Cimino JJ, Cohen IG, Dorr D, Elkin PL, Fan JW, Ferris T, Foran DJ, Hanauer D, Hogarth M, Huang K, Kalpathy-Cramer J, Kandpal M, Karnik NS, Katoch A, Lai AM, Lambert CG, Li L, Lindsell C, Liu J, Lu Z, Luo Y, McGarvey P, Mendonca EA, Mirhaji P, Murphy S, Osborne JD, Paschalidis IC, Harris PA, Prior F, Shaheen NJ, Shara N, Sim I, Tachinardi U, Waitman LR, Wright RJ, Zai AH, **Zheng K**, Lee SS, Malin BA, Natarajan K, Price Ii WN, Zhang R, Zhang Y, Xu H, Bian J, Weng C, Peng Y. Environment scan of generative AI infrastructure for clinical and translational science. Npj Health Syst. 2025;2(1):4. (11 pages.) PMCID: PMC11762411

J.132 Zhao X, Schueller SM, Kim J, Stadnick NA, Eikey E, Schneider M, **Zheng K**, Mukamel DB, Sorkin DH. Real-world adoption of mental health support among adolescents: cross-sectional analysis of the California Health Interview Survey. J Pediatr Psychol. 2025;50(1):20–9. PMID: 37978854

J.131 Subramanian A, Cao R, Naeini EK, Aqajari SAH, Hughes TD, Calderon MD, **Zheng K**, Dutt N, Liljeberg P, Salanterä S, Nelson AM, Rahmani AM. Multimodal pain recognition in postoperative patients: machine learning approach. JMIR Form Res. 2025;9:e67969. (16 pages.) PMCID: PMC11811662

J.130 Schneider ML, Cha BS, Borghouts J, Eikey EV, Schueller SM, Stadnick NA, **Zheng K**, Mukamel DB, Sorkin DH. Individual and organizational outcomes of engaging peers in the cocreation of digital mental health interventions. Psychol Serv. 2025;22(4):793–806. PMID: 39172398

J.129 Hernandez-Ramos R, Schueller SM, Borghouts J, Palomares K, Eikey E, Schneider M, Stadnick NA, **Zheng K**, Mukamel DB, Sorkin DH. Evaluation of a pilot implementation of a digital cognitive behavioral therapy platform for isolated older adults in county mental health services. Implement Res Pract. 2024;5:26334895241288571. (9 pages.) PMCID: PMC11489907

J.128 Cha BS, Borghouts J, Eikey E, Mukamel DB, Schueller SM, Sorkin DH, Stadnick NA, Zhao X, **Zheng K**, Schneider ML. Variability in the integration of peers in a multi-site digital mental health innovation project. Adm Policy Ment Health. 2024;51(2):226–39. PMCID: PMC10850170

J.127 Wedel N, Zinger N, Singh AK, Kaur S, Njeze O, Cosar E, Mowrey W, Green S, Reznik M, Feldman J, Su Z, Ansari A, Elrington C, Mathur M, **Zheng K**, Jariwala SP. ASTHMAXcel PRO patient satisfaction and usability field testing. J Asthma. 2024;61(8):813–22. PMID: 38226774

J.126 Miao A, Khakshour D, Cosar E, Hsia B, **Zheng K**, Kaur S, Singh AK, Njeze O, Feldman J, Reznik M, Jariwala SP. Conducting patient and clinician participatory design sessions to create a user-centered mobile application for adults with Asthma. Curr J Appl Sci Technol. 2023;42(46):50–9. DOI: 10.9734/cjast/2023/v42i464294

J.125 Al-Dajani N, Czyz EK, Eisenberg D, **Zheng K**, King CA. A latent profile analysis of at-risk first-year undergraduate students. J Am Coll Health. 2023;73(3):1232–9. PMID: 37722880

J.124 Wu DTY, Hanauer DA, Murdock P, Vydiswaran VGV, Mei Q, **Zheng K**. Developing a semantically based query recommendation for an electronic medical record search engine: query log analysis and design implications. JMIR Form Res. 2023;7:e45376. (9 pages.) PMCID: PMC10541636

J.123 Goyal J, Ng DQ, Zhang K, Chan A, Lee J, **Zheng K**, Hurley-Kim K, Nguyen L, He L, Nguyen M, McBane S, Li W, Cadiz CL. Using machine learning to develop a clinical prediction model for SSRI-associated bleeding: a feasibility study. BMC Medical Inform Decis Mak. 2023;23:105. (11 pages.) PMCID: PMC10257821

J.122 Boussina A, Wardi G, Shashikumar S, Malhotra A, **Zheng K**, Nemati S. Representation learning and spectral clustering for the development and external validation of dynamic sepsis phenotypes: an observational cohort study. J Med Internet Res. 2023:25:e45614. (17 pages.) PMCID: PMC10337434

J.121 Dalton AF, Couture A, DeSilva MB, Irving SA, Gohil S, Rao S, Fink RV, Naleway AL, Guo Z, Sundaresan D, Birch RJ, Ball S, **Zheng K**, Ong TC, Reed C, Bozio CH. Patient and epidemiological factors associated with influenza testing in hospitalized adults with acute respiratory illnesses, 2016–2017 to 2019–2020. Open Forum Infect Dis. 2023;10(4):ofad162. (11 pages.) PMCID: PMC10117375

J.120 Veinot TC, Gillespie B, Argentina M, Bragg-Gresham J, Chatoth D, Collins Damron K, Heung M, Krein S, Wingard R, **Zheng K**, Saran R. Enhancing the cardiovascular safety of hemodialysis care using multimodal provider education and patient activation interventions: protocol for a cluster randomized controlled trial. JMIR Res Protoc. 2023;12:e46187. (22 pages.) PMCID: PMC10160944

J.119 Zhao X, Stadnick NA, Ceballos-Corro E, Castro J Jr, Mallard-Swanson K, Palomares KJ, Eikey E, Schneider M, **Zheng K**, Mukamel DB, Schueller SM, Sorkin DH. Facilitators of and barriers to integrating digital mental health into county mental health services: qualitative interview analyses. JMIR Form Res. 2023;7:e45718. (16 pages.) PMCID: PMC10230355

J.118 Kuo TT, Pham A, Edelson ME, Kim J, Chan J, Gupta Y, Ohno-Machado L, the R2D2 Consortium. Blockchain-enabled immutable, distributed, and highly available clinical research activity logging system for federated COVID-19 data analysis from multiple institutions. J Am Med Inform Assoc. 2023;30(6):1167–78. PMCID: PMC10198529

J.117 Tran BD,* Latif K,* Reynolds TL,* Park J, Lafata JE, Tai-Seale M, **Zheng K**. "Mm-hm," "Uh-uh": are non-lexical conversational sounds deal breakers for the ambient clinical documentation technology? J Am Med Inform Assoc. 2023;30(4):703–11. PMCID: PMC10018260

J.116 Singh S, Kim J, Luo J, Paul P, Rudrapatna V, Park S, **Zheng K**, Syal G, Ha C, Fleshner P, McGovern D, Sauk JS, Limketkai B, Dulai PS, Boland BS, Eisenstein S, Ramamoorthy S, Melmed G, Mahadevan U, Sandborn WJ, Ohno-Machado L. Comparative safety and effectiveness of biologic therapy for Crohn's Disease: a CA-IBD cohort study. Clin Gastroenterol Hepatol. 2023;21(9):2359–69.e5. PMCID: PMC12145724

J.115 Borghouts J, Eikey EV, De Leon C, Schueller SM, Schneider M, Stadnick NA, **Zheng K**, Wilson L, Caro D, Mukamel DB, Sorkin DH. Understanding the role of support in digital mental health programs with older adults: users' perspective and mixed methods study. JMIR Form Res. 2022;6(12):e43192. (15 pages.) PMCID: PMC9795392

J.114 Berdahl CT, Henreid AJ, Pevnick JM, **Zheng K**, Nuckols TK. Digital tools designed to obtain the history of present illness from patients: scoping review. J Med Internet Res. 2022;24(11):e36074. (17 pages.) PMCID: PMC9716422

J.113 Bozio CH, Butterfield K, Irving SA, Vazquez-Benitez G, Ong TC, **Zheng K**, Ball SW, Naleway AL, Barron M, Reed C. Relative risks of COVID-19-associated hospitalizations and clinical outcomes by age and race/ethnicity – March 2020 – March 2021. Open Forum Infect Dis. 2022;9(10):ofac376. (9 pages.) PMCID: PMC9532249

J.112 Coryell W, Horwitz AG, Albucher RC, **Zheng K**, Pistorello J, Eisenberg D, Favorite T, King CA. Suicidality and alcohol use as predictors of future suicidal behavior in college students. Alcohol Alcohol. 2022;57(6):643–7. PMCID: PMC9651983

J.111 Idossa D, Borno HT, Wang K, Pletcher M, Gresham G, Canchola AJ, Bell DS, Matheny M, Schilling L, Perkins AM, **Zheng K**, Ohno-Machado L, Kim J, Soohoo SL, Meeker D, Gomez S. Ethnic and racial inequities in cancer screening during the COVID-19 pandemic: a multi-site observational study in the United States. IJCCD. 2022;2(2). (16 pages.) DOI: 10.53876/001c.37412

J.110 He L,* Yin T,* **Zheng K**. They may not work! An evaluation of eleven sentiment analysis tools on seven social media datasets. J Biomed Inform. 2022;132:104142. (9 pages.) PMID: 35835437

J.109 Nguyen NH, Luo J, Paul P, Kim J, Syal G, Ha C, Rudrapatna V, Park S, Parekh N, **Zheng K**, Sauk JS, Limketkai B, Fleshner P, Eisenstein S, Ramamoorthy S, Melmed G, Dulai PS, Boland BS, Mahadevan U, Sandborn WJ, Ohno-Machado L, McGovern D, Singh S. Effectiveness

and safety of biologic therapy in Hispanic vs non-Hispanic patients with inflammatory bowel diseases: a CA-IBD cohort study. Clin Gastroenterol Hepatol. 2022:S1542-3565(22)00518-3. (14 pages.) PMCID: PMC9701245

J.108 Gu P, Luo J, Kim J, Paul P, Limketkai B, Sauk JS, Park S, Parekh N, **Zheng K**, Rudrapatna V, Syal G, Ha C, McGovern D, Melmed GY, Fleshner P, Eisenstein S, Ramamoorthy S, Dulai P, Boland B, Grunvald EJ, Mahadevan U, Ohno-Machado L, Sandborn WJ, Singh S. Impact of obesity on risk of hospitalization, surgery and serious infection in biologic-treated patients with inflammatory bowel diseases: a CA-IBD cohort study. Am J Gastroenterol. 2022;117(10):1639–47. PMID: 35973139

J.107 Bornheimer LA, Czyz E, Jung Koo H, Li Verdugo J, Eisenberg D, **Zheng K**, Pistorello J, Albucher RC, Coryell W, Favorite T, King CA. Suicide risk profiles and barriers to professional help-seeking among college students with elevated risk for suicide. J Psychiatr Res. 2022;152:305–12. PMCID: PMC10653046

J.106 King CA, Eisenberg D, Pistorello J, Coryell W, Albucher RC, Favorite T, Horwitz AG, Bonar EE, Epstein D, **Zheng K**. Electronic bridge to mental health for college students: a randomized controlled intervention trial. J Consult Clin Psychol. 2022;90(2):172–83. PMCID: PMC11443499

J.105 Wu DTY, Barrick L, Ozkaynak M, Blondon K, **Zheng K**. Principles for designing and developing a workflow monitoring tool to enable and enhance clinical workflow automation. Appl Clin Inform. 2022;13(1):132–8. PMID: 35045584

J.104 Yale K, Nguyen C, Telep S, Ghigi A, **Zheng K**, Subramanian I, Feeney C, Mesinkovska NA. Is prior antithrombotic use protective against COVID-19 infection? A cross-sectional study of the University of California Health patient population. Ann Blood. 2022:1–3. DOI: 10.21037/aob-21-75

J.103 Chen Y, Park SY. Gui X, Cramer SC, **Zheng K**, Chen Y. Challenges and patient strategies in seeking health services for chronic stroke: a qualitative study. Int J Health Care. 2022;8(1):36–50. DOI: 10.5430/ijh.v8n1p36

J.102 Nguyen C, Shwe S, Yale K, Ghigi A, **Zheng K**, Mesinkovska NA, Bhutani T. The role of gender, race, and ethnicity in psoriasis patients with COVID-19 infection: a cross-sectional study. Int J Womens Dermatol. 2022;8(1):e012. (3 pages.) PMCID: PMC8939651

J.101 Horwitz AG, Hong V, Eisenberg D, **Zheng K**, Albucher R, Coryell W, Pistorello J, Favorite T, King CA. Engagement with personalized feedback for emotional distress among college students at elevated suicide risk. Behav Ther. 2022;53(2):365–75. PMID: 35227410

J.100 Yale K, Nourmohammadi N, Casale F, Ghigi A, **Zheng K**, Mesinkovska NA. A Year in Review: a cross-sectional study of alopecia areata and risk of COVID-19 infection, hospitalization, and mortality from March 2020 – February 2021. Int J Dermatol. 2022;61(3):e81–3. PMCID: PMC9032194

J.99 Bonar EE, Kidwell KM, Bohnerte ASB, Bourquea CA, Carter PM, Clark SJ, Glantz MD, King CA, Losman ED, McCabe SE, Philyaw-Kotova ML, Prosser LA, Voepel-Lewis T, **Zheng K**, Walton MA. Optimizing scalable, technology-supported behavioral interventions to prevent opioid misuse among adolescents and young adults in the emergency department: a randomized controlled trial protocol. Contemp Clin Trials. 2021;108:106523. (10 pages.) PMCID: PMC8453131

J.98 Borghouts J, Eikey EV, Mark G, De Leon C, Schueller SM, Schneider M, Stadnick N, **Zheng K**, Mukamel DB, Sorkin DH. Understanding mental health app use among community college students: web-based survey study. J Med Internet Res. 2021;23(9):e27745. (18 pages.) PMCID: PMC8479606

J.97 Fox AB, Vogt D, Boyd JE, Earnshaw VA, Janio EA, Davis K, Eikey EV, Schneider M, Schueller SM, Stadnick NA, **Zheng K**, Mukame DB, Sorkin DH. Mental illness, problem, disorder, distress: does terminology matter when measuring stigma? Stigma Health. 2021;6(4): 419–29. DOI: 10.1037/sah0000329

J.96 Coryell W, Horwitz AG, Albucher R, **Zheng K**, Pistorello J, Eisenberg D, Favorite T, King CA. Alcohol intake in relation to suicidal ideation and behavior among university students. J Am Coll Health. 2023;71(6):1680–4. PMID: 34398708

J.95 Willis MA, Hu Z, Saran R, Argentina M, Bragg-Gresham J, Krein SL, Gillespie B, **Zheng K**, Veinot TC. Feeling better on hemodialysis: user-centered design requirements for promoting patient involvement in the prevention of treatment complications. J Am Med Inform Assoc. 2021;28(8):1612–31. PMCID: PMC8324235 (Editor's Choice and Featured Article, Diana Forsythe Award Finalist)

J.94 Kim J, Neumann L, Paul P, Day ME, Aratow M, Bell DS, Doctor JN, Hinske LC, Jiang X, Kim KK, Matheny ME, Meeker D, Pletcher MJ, Schilling LM, SooHoo S, Xu H, **Zheng K**, Ohno-Machado L; R2D2 Consortium. Privacy-protecting, reliable response data discovery using COVID-19 patient observations. J Am Med Inform Assoc. 2021;28(8):1765–76. PMCID: PMC8194878

J.93 He L,* He C,* Reynolds TL,* Bai Q, Huang Y, Li C, **Zheng K**, Chen Y. Why do people oppose mask wearing? A comprehensive analysis of US tweets during the COVID-19 pandemic. J Am Med Inform Assoc. 2021;28(7):1564–73. PMCID: PMC7989302 (Editor's Choice and Featured Article)

J.92 He L,* Yin T,* Hu Z,* Chen Y, Hanauer DA, **Zheng K**. Developing a standardized protocol for computational sentiment analysis research using health-related social media data. J Am Med Inform Assoc. 2021;28(6):1125–34. PMCID: PMC8200276

J.91 Tran BD,* Rosenbaum K,* **Zheng K**. An interview study with medical scribes on how their work may alleviate clinician burnout through delegated health IT tasks. J Am Med Inform Assoc. 2021;28(5):907–14. PMCID: PMC8068433

J.90 Eikey EV,* Caldeira C,* Figueiredo MC,* Chen Y, Borelli J, Mazmanian M, **Zheng K**. Beyond self-reflection: introducing the concept of rumination in personal informatics. Pers Ubiquit Comput. 2021;601–16. DOI: 10.1007/s00779-021-01573-w

J.89 Camplain R, Lopez NV, Cooper DM, McKenzie TL, **Zheng K**, Radom-Aizik S. Development of the systematic observation of COVID-19 mitigation (SOCOM): assessing face covering and distancing in schools. J Clin Transl Res. 2021;5(1):e124. PMCID: PMC8267337

J.88 Willis MA, Brand Hein L, Hu Z, Saran R, Argentina M, Bragg-Gresham J, Krein SL, Gillespie B, **Zheng K**, Veinot TC. Evaluation of a tablet-based intervention to prevent intradialytic hypotension in dialysis patients during in clinic dialysis: mixed methods interaction study. JMIR Hum Factors. 2021;8(2):e26012. (12 pages.) PMCID: PMC8240799

J.87 Montgomery RM, Brandysky L, Neary M, Eikey E, Mark G, Schneider M, Stadnick NA, **Zheng K**, Mukamel DB, Sorkin DH, Schueller SM. Curating the digital mental health landscape with a guide to behavioral health apps: a county-driven resource. Psychiatr Serv. 2021;72(10):1229–32. PMID: 34030454. (Editor's Choice)

J.86 Nguyen C, Yale K, Casale F, Ghigi A, **Zheng K**, Silverberg JI, Mesinkovska NA. SARS-CoV-2 infection in patients with atopic dermatitis: a cross-sectional study. Br J Dermatol. 2021;185(3):640–1. PMCID: PMC8239933

J.85   Kasaeyan Naeini E, Subramanian A, Calderon MD, **Zheng K**, Dutt N, Liljeberg P, Salanterä S, Nelson AM, Rahmani AM. Pain recognition with electrocardiographic features in postoperative patients: method validation study. J Med Internet Res. 2021;23(5):e25079. (13 pages.) PMCID: PMC8196363

J.84   Sorkin DH, Janio EA, Eikey EV, Schneider M, Davis K, Schueller SM, Stadnick NA, **Zheng K**, Neary M, Safani D, Mukamel DB. Rise in use of digital mental health tools and technologies in the U.S. during the COVID-19 pandemic. J Med Internet Res. 2021;23(4):e26994. (12 pages.) PMCID: PMC8054774

J.83   Aqajari SAH, Cao R, Kasaeyan Naeini E, Calderon MD, **Zheng K**, Dutt N, Liljeberg P, Salanterä S, Nelson AM, Rahmani AM. Pain assessment tool with electrodermal activity for postoperative patients: method validation study. JMIR Mhealth Uhealth. 2021;9(5):e25258. (11 pages.) PMCID: PMC8135033

J.82   Nguyen C, Yale K, Ghigi A, **Zheng K**, Mesinkovska NA, Wambier CG, Cadegiani FA, Goren A. SARS-CoV-2 infection in patients with thyroid disease: a cross-sectional study. Ann Thyroid. 2021;6:7. (3 pages.) PMCID: PMC8211102

J.81   Borghouts J, Eikey EV, Mark G, De Leon C, Schueller SM, Schneider M, Stadnick N, **Zheng K**, Mukamel D, Sorkin DH. Barriers to and facilitators of user engagement with digital mental health interventions: systematic review. J Med Internet Res. 2021;23(3):e24387. (29 pages.) PMCID: PMC8074985

J.80   Zhu M, Wu C, Huang S, **Zheng K**, Young SD, Yan X, Yuan Q. Privacy paradox in mHealth applications: an integrated elaboration likelihood model incorporating privacy calculus and privacy fatigue. Telemat Inform. 2021;61:101601. (15 pages.) DOI: 10.1016/j.tele.2021.101601

J.79   Yale K, Elsanadi R, Ghigi A, **Zheng K**, Goren A, Mesinkovska NA. Androgens and women: COVID-19 outcomes in women with acne vulgaris, polycystic ovarian syndrome, and hirsutism. Int J Dermatol. 2021;60(7):e267–8. PMCID: PMC8014631

J.78   Park JI, Kim D, Lee JA, **Zheng K**, Amin A. Personalized risk prediction of 30-day readmissions with venous thromboembolism using machine learning. J Nurs Scholarsh. 2021;53(3):278–87. PMCID: PMC8568050

J.77   Cooley-Rieders K,* **Zheng K**. Physician documentation matters. Using natural language processing to predict mortality in sepsis. Intell Based Med. 2021;5:100028. (7 pages.) DOI: 10.1016/j. ibmed.2021.100028

J.76   Saran R, Pearson A, Tilea A, Shahinian V, Bragg-Gresham J, Heung M, Hutton DW, Steffick D, **Zheng K**, Morgenstern H, Gillespie BW, Leichtman A, Young E, O'Hare AM, Fischer M, Hotchkiss J, Siew E, Hynes D, Fried L, Balkovetz D, Sovern K, Liu CF, Crowley S; VA-REINS Steering Committee; VA Advisory Board. Burden and cost of caring for US veterans with CKD: initial findings from the VA Renal Information System (VA-REINS). Am J Kidney Dis. 2021;77(3):397–405. PMID: 32890592

J.75   Busby DR, **Zheng K**, Eisenberg D, Albucher R, Favorite T, Coryell W, Pistorello J, King CA. Black college students at elevated risk for suicide: barriers to mental health service utilization. J Am Coll Health. 2021;69(3):308–14. PMID: 31662044

J.74   Nourmohammadi M, Yale KL, Ghigi A, **Zheng K**, Mesinkovska NA. A cross-sectional study on Herpes Zoster diagnosis in the time of COVID-19. SKIN J Cutan Med. 2020;4(6):556–8. DOI: 10.25251/skin.4.6.9

J.73   Li Y, Meng J, Song C, **Zheng K**. Information avoidance and medical screening: a field experiment in China. Manage Sci. 2020;67(7):4252–72. DOI: 10.1287/mnsc.2020.3723

J.72   Xu J, Hussain S, Lu G, **Zheng K**, Wei S, Bao W, Zhang L. Associations of stay-at-home order and face-masking recommendation with trends in daily new cases and deaths of laboratory-confirmed COVID-19 in the United States. Explor Res Hypothesis Med. 2020. (10 pages.) PMCID: PMC7361445

J.71   Kasaeyan Naeini E, Jiang M, Syrjälä E, Calderon MD, Mieronkoski R, **Zheng K**, Dutt N, Liljeberg P, Salanterä S, Nelson AM, Rahmani AM. Prospective study evaluating a pain assessment tool in a postoperative environment: protocol for algorithm testing and enhancement. JMIR Res Protoc. 2020;9(7):e17783. (10 pages.) PMCID: PMC7367536

J.70   Horwitz AG, McGuire TC, Busby DR, Eisenberg D, **Zheng K**, Pistorello J, Albucher R, Coryell W, King CA. Sociodemographic differences in barriers to mental health care among college students at elevated suicide risk. J Affect Disord. 2020;271(15):123–30. PMCID: PMC7266827

J.69   Horwitz AG, Berona J, Busby DR, Eisenberg D, **Zheng K**, Pistorello J, Albucher R, Coryell W, Favorite T, Walloch JC, King CA. Variation in suicide risk among subgroups of sexual and gender minority college students. Suicide Life Threat Behav. 2020;50(5):1041–53. PMCID: PMC7981781

J.68   Hanauer DA, Barnholtz-Sloan J, Beno M, Fiol GD, Durbin E, Gologorskaya O, Harnett B, Kawamoto K, May B, Meeks E, Pfaff E, Weiss J, **Zheng K**. EMERSE: an information retrieval tool for supporting cancer research. JCO Clin Cancer Inform. 2020;4:454–63. PMCID: PMC7265780

J.67   Tran BD,* Chen Y, Liu SZ,* **Zheng K**. How does medical scribes' work inform the development of speech-based clinical documentation technologies? A systematic review. J Am Med Inform Assoc. 2020;27(5):808–17. PMCID: PMC7309239

J.66   Kuo P-Y, Saran R, Argentina M, Heung M, Bragg-Gresham JL, Krein S, Gillespie B, **Zheng K**, Veinot TC. Cramping, crashing, cannulating, and clotting: a qualitative study of patients' definitions of a "bad run" on hemodialysis. BMC Nephrol. 2020;21:67. (10 pages.) PMCID: PMC7045425

J.65   Hussain MI,* Nelson AM, Yeung BG, Sukumar L, **Zheng K**. How the presentation of patient information and decision-support advisories influences opioid prescribing behavior: a simulation study. J Am Med Inform Assoc. 2020;27(4):613–20. PMCID: PMC7075535

J.64   **Zheng K**, Ratwani RM, Adler-Milstein J. Studying workflow and workarounds in Electronic Health Record–supported work to improve health system performance. Ann Intern Med. 2020;172(11_Supplement):S116–22. PMCID: PMC8061456

J.63   Gui X,* Chen Y, Zhou X, Reynolds TL,* **Zheng K**, Hanauer DA. Physician champions' perspectives and practices on electronic health records implementation: challenges and strategies. JAMIA Open. 2020;3(1):53–61. PMCID: PMC7309228

J.62   Busby DR, Horwitz AG, **Zheng K**, Eisenberg D, Harper GW, Albucher R, Roberts LW, Favorite T, Coryell W, Pistorello J, King CA. Suicide risk among gender and sexual minority college students: the roles of victimization, discrimination, connectedness, and identity affirmation. J Psychiatr Res. 2020;121:182–8. PMCID: PMC7008002

J.61   All of Us Research Program Investigators, Denny JC, Rutter JL, Goldstein DB, Philippakis A, Smoller JW, Jenkins G, Dishman E. The "All of Us" Research Program. N Engl J Med. 2019;381(7):668–76. PMCID: PMC8291101

J.60   Chen Y,* Chen Y, **Zheng K**, Dodakian L, See J, Zhou R, Chiu N, Augsburger R, McKenzie A, Cramer SC. A qualitative study on user acceptance of a home-based stroke telerehabilitation system. Top Stroke Rehabil. 2019;1–12. PMCID: PMC7012699

J.59 Hussain MI,* Reynolds TL,* **Zheng K**. Medication safety alert fatigue may be reduced via interaction design and clinical role-tailoring: a systematic review. J Am Med Inform Assoc. 2019;26(10):1141–9. PMCID: PMC6748819

J.58 Kim J, Kim H, Bell E, Bath T, Paul P, Pham A, Jiang Z, **Zheng K**, Ohno-Machado L. Patient perspectives about decisions to share medical data and biospecimens for research. JAMA Netw Open. 2019;2(8):e199550. (13 pages.) PMCID: PMC6707015

J.57 Hussain MI,* Nelson A, Polston G, **Zheng K**. Improving the design of California's prescription drug monitoring program. JAMIA Open. 2019;2(1):160–72. PMCID: PMC6951861

J.56 Reynolds TL,* DeLucia PR, Esquibel KA, Gage T, Wheeler NJ, Randell JA, Stevenson JG, **Zheng K**. Evaluating a handheld decision support device in pediatric intensive care settings. JAMIA Open. 2019;2(1):49–61. PMCID: PMC6951880

J.55 Schneider M, Bagaporo A, Croker J, Davidson A, Dillon P, Dinkjian A, Gibson M, Indelicato N, Jenkins AJ, Mathew T, Mccoy R, Ranu H, **Zheng K**. The CTSA External Reviewer Exchange Consortium (CEREC): engagement and efficacy. J Clin Transl Res. 2019;3(6):325–31. PMCID: PMC6885993

J.54 Chen Y,* Abel KT, Janecek JT, Chen Y, **Zheng K**, Cramer SC. Home-based technologies for stroke rehabilitation: a systematic review. Int J Med Inform. 2019;123:11–22. PMCID: PMC6814146

J.53 Patel MR, Smith A, Leo H, Hao W, **Zheng K**. Improving patient–provider communication and therapeutic practice through better integration of electronic health records in the exam room: a pilot randomized controlled trial. Health Educ Behav. 2019;46(3):484–93. PMCID: PMC6465159

J.52 Wang Y,* **Zheng K**, Xu H, Mei Q. Interactive medical word sense disambiguation through informed learning. J Am Med Inform Assoc. 2018;25(7):800–8. PMCID: PMC6658868

J.51 Young SD, **Zheng K**, Chu LF, Humphreys K. Internet searches for opioids predict future emergency department heroin admissions. Drug Alcohol Depend. 2018;190:166–9. PMCID: PMC6436381

J.50 Hanauer DA, Wu DT,* Yang L,* Mei Q, Steffy KM,* Vydiswaran VGV, **Zheng K**. Development and empirical user-centered evaluation of semantically-based query recommendation for an electronic health record search engine. J Biomed Inform. 2017;67:1–10. PMCID: PMC5378386

J.49 Davis M, **Zheng K**, Yang L,* Levy H. Public response to Obamacare on Twitter. J Med Internet Res. 2017;19(5):e167. (10 pages.) PMCID: PMC5466698

J.48 Patel MR, Vichich J, Lang I, Lin J, **Zheng K**. Developing an evidence base of best practices for integrating computerized systems into the exam room: a systematic review. J Am Med Inform Assoc. 2017;24(e1):e207–15. PMCID: PMC7651892

J.47 Bradley DJ, Wu DT,* Goldberg CS, Serwer GS, Lowery RE, Donohue JE, Hirsch-Romano JC, **Zheng K**, Pasquali SK. Out of many, one: integrating data in the pediatric cardiovascular environment. Cardiol Young. 2017;27(4):757–63. PMID: 27680300

J.46 Kolars JC, Fang W, **Zheng K**, Huang AY, Sun Q, Wang Y, Woolliscroft JO, Ke Y. Collaboration platforms in China for translational and clinical research: a case study between Peking University Health Science Center and the University of Michigan Medical School. Acad Med. 2017;92(3):370–3. PMID: 27119322

J.45   Hanauer DA, Branford GL, Greenberg G, Kileny S, Couper MP, **Zheng K**, Choi SW. Two-year longitudinal assessment of physicians' perceptions after replacement of a long-standing homegrown electronic health record: does a J-curve of satisfaction really exist? J Am Med Inform Assoc. 2017;24(e1):e157–65. PMCID: PMC7299498

J.44   **Zheng K**, Abraham J, Novak LL, TL Reynolds,* Gettinger A. A survey of the literature on unintended consequences associated with health information technology: 2014–2015. Yearb Med Inform. 2016;10(1):13–29. PMCID: PMC5171546

J.43   Wu DT,* Hanauer DA, Mei Q, Clark PM, An LC, Proulxe J, Zeng QT, Vydiswaran VGV,* Collins-Thompson K, **Zheng K**. Assessing the readability of *ClinicalTrials.gov*. J Am Med Inform Assoc. 2016;23(2):269–75. PMCID: PMC5009924

J.42   Zhang J,* Chen Y, Ashfaq S, Bell K, Calvitti A, Farber NJ, Gabuzda MT, Gray B, Liu L, Rick S, Street RL, **Zheng K**, Zuest D, Agha Z. Strategizing EHR use to achieve patient-centered care in exam rooms: a qualitative study on primary care providers. J Am Med Inform Assoc. 2016;23(1):137–43. PMCID: PMC5009938

J.41   Ehrlich JR, Michelotti M, Blachley TS, **Zheng K**, Couper MP, Greenberg GM, Kileny S, Branford GL, Hanauer DA, Weizer JS. A two-year longitudinal assessment of ophthalmologists' perceptions after implementing an electronic health record system. Appl Clin Inform. 2016;7(4):930–45. PMCID: PMC5228135

J.40   Liu Y,* Mei Q, Hanauer DA, **Zheng K**, Lee J. Use of social media in the diabetes community: an exploratory analysis of diabetes-related tweets. JMIR Diabetes. 2016;1(2):e4. (8 pages.) PMCID: PMC6238851

J.39   Fontaine J,* **Zheng K**, van de Ven C, Li H, Hiner J, Mitchell K, Gendler S, Hanauer DA. Evaluation of a proximity card authentication system for health care settings. Int J Med Inform. 2016;92:1–7. PMID: 27318066

J.38   Lei J, Meng Q, Sun N, Liang M, **Zheng K**. The evolution of medical informatics in China: retrospective study and lessons learned. Int J Med Inform. 2016;92:8–14. PMID: 27318067

J.37   **Zheng K**, Vydiswaran VGV,* Liu Y,* Wang Y,* Stubbs A, Uzuner Ö, Gururaj AE, Bayer S, Aberdeen J, Rumshisky A, Pakhomov S, Liu H, Xu H. Ease of adoption of clinical natural language processing software: an evaluation of five systems. J Biomed Inform. 2015;58 Suppl:S189–96. PMCID: PMC4974203

J.36   Hanauer DA, Mei Q, Law J, Khanna R, **Zheng K**. Supporting information retrieval from electronic health records: a report of University of Michigan's eight-year experience in developing and using the Electronic Medical Record Search Engine (EMERSE). J Biomed Inform. 2015;55(6):290–300. PMCID: PMC4527540

J.35   King CA, Eisenberg D, **Zheng K**, Czyz EK, Kramer AC, Horwitz AG, Chermack ST. Online suicide risk screening and brief intervention with college students: a pilot randomized controlled trial. J Consult Clin Psychol. 2015;83(3):630–6. PMCID: PMC4446155

J.34   Canvasser NE, Ramo C, Morgan TM, **Zheng K**, Hollenbeck BK, Ghani KR. The use of social media in Endourology: an analysis of the 2013 World Congress of Endourology meeting. J Endourol. 2015;29(5):615–20. PMID: 25026076

J.33   Hanauer DA, **Zheng K**, Singer DC, Gebremariam A, Davis MM. Public awareness, perception, and use of online physician rating sites. JAMA. 2014;311(7):734–5. PMCID: PMC4215043

J.32   Hanauer DA, Preib R,* **Zheng K**, Choi SW. Patient-initiated electronic health record amendment requests. J Am Med Inform Assoc. 2014;21(6):992–1000. PMCID: PMC4215043

J.31   Hanauer DA, Saeed M, **Zheng K**, Mei Q, Shedden K, Aronson AR, Ramakrishnan N. Applying MetaMap to Medline for identifying novel associations in a large clinical dataset: a feasibility analysis. J Am Med Inform Assoc. 2014;21(5):925–37. PMCID: PMC4147617

J.30   Hanauer DA, **Zheng K**, Singer DC, Gebremariam A, Davis MM. Parental awareness and use of online physician rating sites. Pediatrics. 2014;134(4):e966–75. PMID: 25246629

J.29   Lei J,* Guan P, Gao K, Lu X, Chen Y, Li Y, Meng Q, Zhang J, Sittig DF, **Zheng K**. Characteristics of health IT outage and suggested risk management strategies: an analysis of historical outage incident reports in China. Int J Med Inform. 2014;83(2):122–30. PMID: 24246272

J.28   Johnson MP, **Zheng K**, Padman R. Modeling the longitudinality of user acceptance of technology with an evidence-adaptive clinical decision support system. Decis Support Syst. 2014;57:444–53. DOI: 10.1016/j.dss.2012.10.049

J.27   Ghani KR, **Zheng K**, Wei JT, Friedman CP. Harnessing big data for health care and research: are urologists ready? Eur Urol. 2014;66(6):975–7. PMID: 25123321

J.26   Kerber KA, Skolarus LE, Callaghan BC, **Zheng K**, Zhang Y, An LC, Burke JF. Consumer demand for online dizziness information: *if you build it, they may come.* Front Neurol. 2014;5:50. (5 pages.) PMCID: PMC3997034

J.25   Pohl JM, Tanner C, Hamilton A, Kaleba EO, Rachman F, White J, **Zheng K**. Medication safety after the implementation of a commercial electronic health records system in five safety-net practices: a mixed methods approach. J Am Acad Nurse Pract. 2014;26(8):438–44. PMID: 24243832

J.24   Ozkaynak M, Brennan PF, Hanauer DA, Johnson S, Aarts J, **Zheng K**, Haque SN. Patient-centered care requires a patient-oriented workflow model. J Am Med Inform Assoc. 2013; 20(e1):e14–6. PMCID: PMC3715352

J.23   Chen Y, Cao H, Mei Q, **Zheng K**, Xu H. Applying active learning to supervised word sense disambiguation in MEDLINE. J Am Med Inform Assoc. 2013;20(5):1001–6. PMCID: PMC3756255

J.22   Hilligoss B,* **Zheng K**. *Chart Biopsy*: an emerging medical practice enabled by electronic health records and its impacts on emergency department–inpatient admission handoffs. J Am Med Inform Assoc. 2013;20(2):260–7. PMCID: PMC3638186 (Best Paper Selection, *IMIA Yearbook of Medical Informatics 2014: Human Factors and Organizational Issues*)

J.21   Hanauer DA, Aberdeen J, Bayer S, Wellner B, Clark C, **Zheng K**, Hirschman L. Bootstrapping a de-identification system for narrative patient records: cost-performance tradeoffs. Int J Med Inform. 2013;82(9):821–31. PMID: 23643147

J.20   Hanauer DA, **Zheng K**, Commiskey EL, Duck MG, Choi SW, Blayney DW. Computerized prescriber order entry implementation on a physician assistant-managed hematology and oncology inpatient service: effects on workflow and task switching. J Oncol Pract. 2013;9(4):e103–14. PMCID: PMC3710176

J.19   Pohl JM, Nath R, **Zheng K**, Rachman FD, Gans DN, Tanner C. Use of a comprehensive patient safety tool in primary care practices. J Am Acad Nurse Pract. 2013;25(8):415–8. PMID: 24170637

J.18   Griffith JR, Fear KM,* Lammers EJ,* Lemak CH, Banaszak-Holl J, **Zheng K**. A positive deviance perspective on hospital knowledge management: analysis of Baldrige Award recipients 2002–2008. J Healthc Manag. 2013;58(3):187–203. PMID: 23821898

J.17   Mamykina L, Vawdrey DK, Stetson PD, **Zheng K**, Hripcsak G. Clinical documentation: composition or synthesis? J Am Med Inform Assoc. 2012;19(6):1025–31. PMCID: PMC3534467

J.16   Bhavnani SK, Warden M, **Zheng K**, Hill M, Athey BD. Researchers' needs for resource discovery and collaboration tools: a qualitative investigation of translational scientists. J Med Internet Res. 2012;14(3):e75. (10 pages.) PMCID: PMC3415064

J.15   **Zheng K**, Fear KM,* Chaffee BW, Zimmerman CR, Karls EM, Gatwood JD,* Stevenson JG, Pearlman MD. Development and validation of a survey instrument for assessing prescribers' perception of computerized drug–drug interaction alerts. J Am Med Inform Assoc. 2011;18(Suppl 1):i51–61. PMCID: PMC3241157

J.14   **Zheng K**, Hanauer DA, Padman R, Johnson MP, Hussain AA, Ye W, Zhou X, Diamond HS. Handling anticipated exceptions in clinical care: investigating the benefits and consequences of providing 'exit strategies' in an electronic health records system. J Am Med Inform Assoc. 2011;18(6):883–9. PMCID: PMC3197991 (Best Paper Selection, *IMIA Yearbook of Medical Informatics 2012: Human Factors and Organizational Issues*)

J.13   Dennehy P, White M, Hamilton A, Pohl JM, Tanner C, Onifade TJ, **Zheng K**. A partnership model for implementing electronic health records in resource-limited primary care settings: experiences from two nurse managed health centers. J Am Med Inform Assoc. 2011;18(6):820–6. PMCID: PMC3197990

J.12   **Zheng K**, Guo MH,* Hanauer DA. Using the time and motion method to study clinical work processes and workflow: methodological inconsistencies and a call for standardized research. J Am Med Inform Assoc. 2011;18(5):704–10. PMCID: PMC3168304

J.11   **Zheng K**, Mei Q, Hanauer DA. Collaborative search in electronic health records. J Am Med Inform Assoc. 2011;18(3):282–91. PMCID: PMC3078661 (Best Paper Selection, *IMIA Yearbook of Medical Informatics 2012: Knowledge Representation and Management*)

J.10   Hanauer DA, **Zheng K**, Ramakrishnan N, Keller BJ. Opportunities and challenges in association and episode discovery from electronic health records. IEEE Intell Syst. 2011;26(5):83–7. DOI: 10.1109/MIS.2011.91

J.9   Perry EE, **Zheng K**, Ferris ME, Torres L, Bickford K, Segal JH. Adolescents with chronic kidney disease and their need for online peer mentoring: a qualitative investigation of social support and healthcare transition. Ren Fail. 2011;33(7):663–8. PMID: 21787155

J.8   Goodrich DE, Buis LR, Janney AW, Ditty MD, Krause CW, **Zheng K**, Sen A, Strecher VJ, Hess ML, Piette JD, Richardson CR. Integrating an internet-mediated walking program into family medicine clinical practice: a pilot feasibility study. BMC Med Inform Decis Mak. 2011;11:47. (10 pages.) PMCID: PMC3135495

J.7   Zulman DM, Kirch M, **Zheng K**, An LC. Trust in the internet as a health resource among older adults: analysis of data from a nationally representative survey. J Med Internet Res. 2011;13(1):e19. (11 pages.) PMCID: PMC3221340

J.6   **Zheng K**, Haftel HM, Hirschl RB, O'Reilly M, Hanauer DA. Quantifying the impact of health IT implementations on clinical workflow: a new methodological perspective. J Am Med Inform Assoc. 2010;17(4):454–61. PMCID: PMC2995654 (Best Paper Selection, *IMIA Yearbook of Medical Informatics 2011: Health Information Systems*)

J.5   **Zheng K**, Padman R, Krackhardt D, Johnson MP, Diamond HS. Social networks and physician adoption of electronic health records: insights from an empirical study. J Am Med Inform Assoc. 2010;17(3):328–36. PMCID: PMC2995721 (Best Paper Selection, *IMIA Yearbook of Medical Informatics 2011: Human Factors and Organizational Issues*)

J.4   Perry EE, **Zheng K**, Grogan-Kaylor A, Newman MW, Veinot TC. Assessing the effect of a technology-based peer-mentoring intervention on renal teams' perceived knowledge and comfort level working with young adults on dialysis. J Nephrol Soc Work. 2010;33:8–12. PMCID: PMC4176688

J.3   **Zheng K**, Padman R, Johnson MP, Diamond, HS. An interface-driven analysis of user interactions with an electronic health records system. J Am Med Inform Assoc. 2009;16(2):228–37. PMCID: PMC2649313 (Most Cited JAMIA Papers 2009–2010)

J.2   **Zheng K**, McGrath D, Hamilton A, Tanner C, White M, Pohl JM. Assessing organizational readiness for adopting electronic health record systems: a case study in ambulatory practices. J Decis Syst. 2009;18(1):117–40. DOI: 10.3166/jds.18.117-140

J.1   **Zheng K**, Padman R, Johnson MP, Diamond HS. Understanding technology adoption in clinical care: clinician adoption behavior of a point-of-care reminder system. Int J Med Inform. 2005;74(7–8):535–43. PMID: 16043083

(*b*) <u>Refereed Full-Length Conference Papers</u>

C.64   Lu X, Hu D, Nguyen AT, Morse B, Schilling LM, **Zheng K**, Keller MS, Ohno-Machado L, Chen Y. We need granular sharing of de-identified data—but will patients engage? Investigating health system leaders' and patients' perspectives on a patient-controlled data-sharing platform. In: *Proceedings of the 2026 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW '26)*. 2026. (forthcoming)

C.63   Lu X, Miller M, Pearce AK, **Zheng K**, Malhotra A, Nemati S. A deep counterfactual framework for high-flow nasal cannula and non-invasive ventilation recommendations for acute respiratory failure. In: *Proceedings of the 2025 IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI '25)*. (forthcoming)

C.62   Hu D,* Guo Y,* Cho HN,* Chow E, Mukamel DB, Sorkin D, Reikes A, Perret D, Pandita D, **Zheng K**. When AI writes back: ethical considerations by physicians on AI-drafted patient message replies. AMIA Annu Symp Proc. 2025. (forthcoming)

C.61   Hu D,* Lu X, Chen Y, Keller M, Nguyen AT, Le V, Kuo TT, Ohno-Machado L, **Zheng K**. Supporting patients in managing electronic health records and biospecimens consent for research: insights from a mixed-methods usability evaluation of the iAGREE Portal. AMIA Annu Symp Proc. 2025. (forthcoming)

C.60   Guo Y,* Hu D,* Zhou Y,* Lyu T,* **Zheng K**. Computational use of patient-provider secure messaging data to achieve better clinical efficiency and quality of communication: a systematic review. AMIA Annu Symp Proc. 2025. (forthcoming)

C.59   Zhou Y,* Hu D,* Lyu T,* Dhillon J, Beck AL, Sadigh G, **Zheng K**. Understanding stigmatizing language lexicons: a comparative analysis in clinical contexts. AMIA Annu Symp Proc. 2025. (forthcoming)

C.58   Cho HN,* Jung K,* Eisenberg D, King CA, **Zheng K**. Barriers to digital mental health services among college students. Stud Health Technol Inform. 2025;329:1261–5. PMID: 40776059

C.57   Guo Y,* Hu D,* Wang J,* **Zheng K**, Perret D, Pandita D, Tam S. Ambient listening in clinical practice: evaluating EPIC signal data before and after implementation and its impact on physician workload. Stud Health Technol Inform. 2025;329:653–7. PMID: 40775939

C.56   Lee J,* Chen Y, **Zheng K**, Rodriguez J, Feldman J, Jariwala SP. User needs assessment of ASTHMAXcel Voice: a novel mobile health app for asthma management. Stud Health Technol Inform. 2025;329:401–5. PMID: 40775888

C.55   Zehrung R,* Hu D,* Guo Y,* **Zheng K**, Chen Y. Investigating the effects of housing instability on depression, anxiety, and mental health treatment in childhood and adolescence. AMIA Annu Symp Proc. 2024;1303–12. PMCID: PMC12099419

C.54   He L, Omranian S, McRoy S, **Zheng K**. Using Large Language Models for sentiment analysis of health-related social media data: empirical evaluation and practical tips. AMIA Annu Symp Proc. 2024;503–12. PMCID: PMC12099340

C.53   Guo Y,* Hu K,* Hu D,* **Zheng K**, Cooper DM. An interactive web application for school-based physical fitness testing in California: geospatial analysis and custom mapping. AMIA Annu Symp Proc. 2024;463–72. PMCID: PMC12099374 (Student Paper Competition Finalist)

C.52   Guo Y,* Zehrung R,* Genuario K,* Chen Y, **Zheng K**. Perspectives on privacy in the post-Roe era: a mixed-methods of machine learning and qualitative analyses of tweets. AMIA Annu Symp Proc. 2023;951–60. PMCID: PMC10785943

C.51   Tran BD,* Mangu R,* Tai-Seale M, Lafata JE, **Zheng K**. Automatic speech recognition performance for digital scribes: a performance comparison between general-purpose and specialized models tuned for patient-clinician conversations. AMIA Annu Symp Proc. 2022;1072–80. PMCID: PMC10148344

C.50   Reynolds TL,* Kaligotla M,* **Zheng K**. Investigating the interoperable health app ecosystem at the start of the 21st Century Cures Act. AMIA Annu Symp Proc. 2022;942–51. PMCID: PMC10148309

C.49   Reyes CN,* **Zheng K**, Hanauer DA. Design, implementation, and usability of the Electronic Medical Record Search Engine (EMERSE) tool. AMIA Annu Symp Proc. 2022;932–41. PMCID: PMC10148345

C.48   Guo Y,* Zhu J, Huang Y, He L,* He C, Li C, **Zheng K**. Public opinions toward COVID-19 vaccine mandates: a machine learning-based analysis of U.S. tweets. AMIA Annu Symp Proc. 2022;502–11. PMCID: PMC10148373 (Student Paper Competition Finalist & Second Place)

C.47   Reynolds TL,* Zhang J,* **Zheng K**, Chen Y. Unpacking the use of laboratory test results in an online health community throughout the medical care trajectory. In: *Proceedings of the 2022 ACM Conference on Computer Supported Cooperative Work (CSCW '22)*. 2022;6(361):1–32. DOI: 10.1145/3555086

C.46   Su Z,* He L,* Jariwala SP, **Zheng K**, Chen Y. "What is your envisioned future?": towards human-AI enrichment in data work of asthma care. In: *Proceedings of the 2022 ACM Conference on Computer Supported Cooperative Work (CSCW '22)*. 2022;6(267):1–28. DOI: 10.1145/3555157

C.45   Su Z,* Figueiredo MC,* Jo J,* **Zheng K**, Chen Y. Analyzing description, user understanding and expectations of AI in mobile health applications. AMIA Annu Symp Proc. 2020;1170–9. PMCID: PMC8075490

C.44   Reynolds TL,* Ali N,* **Zheng K**. What do patients and caregivers want? A systematic review of user suggestions to improve patient portals. AMIA Annu Symp Proc. 2020;1070–9. PMCID: PMC8075519 (Outstanding Student Paper in the Field of Consumer and Pervasive Health Informatics)

C.43   He L,* He C,* Wang Y, Hu Z, **Zheng K**, Chen Y. What do patients care about? Mining fine-grained patient concerns from online physician reviews through computer-assisted multi-level qualitative analysis. AMIA Annu Symp Proc. 2020;544–53. PMCID: PMC8075539 (Student Paper Competition Finalist)

C.42 Reynolds TL,* Clay B, Rudkin SE, Beckham S, Karimi DP, Glandorf J, Patton P, Longhurst C, **Zheng K**. Migrating from one comprehensive commercial EHR to another: perceptions of front-line clinicians and staff. AMIA Annu Symp Proc. 2019;765–73. PMCID: PMC7153162

C.41 **Zheng K**, Chen Y, Adler-Milstein J, Rosenberg AL, Wu DT,* Mei Q, Hanauer DA. How do healthcare professionals personalize their software? A pilot exploration based on an electronic health records search engine. Stud Health Technol Inform. 2019;264:1408–12. PMID: 31438158

C.40 He L,* **Zheng K**. How do general-purpose sentiment analyzers perform when applied to health-related online social media data? Stud Health Technol Inform. 2019;264:1208–12. PMCID: PMC8061710 (Best Student Paper Nomination)

C.39 Shehada ER,* He L,* Eikey EV,* Jen M, Wong A, Young SD, **Zheng K**. Characterizing frequent flyers of an emergency department using cluster analysis. Stud Health Technol Inform. 2019;264:158–62. PMID: 31437905

C.38 Kuo P-Y, Saran R, Argentina M, Heung M, Bragg-Gresham JL, Chatoth D, Gillespie B, Krein S, Wingard R, **Zheng K**, Veinot TC. Development of a checklist for the prevention of intradialytic hypotension in hemodialysis care: design considerations based on activity theory. In: *Proceedings of the 2019 ACM Conference on Human Factors in Computing Systems (CHI '19)*. 2019;642:1–14. DOI: 10.1145/3290605.3300872 (Acceptance Rate 23.8%)

C.37 Eikey EV,* Chen Y, **Zheng K**. Do recovery apps even exist?: Why college women with eating disorders use (but not recommend) diet and fitness apps over recovery apps. In: *Proceedings of the 2019 International Conference on Information (iConference '19)*. 2019;727–40. DOI: 10.1007/978-3-030-15742-5_69 (Acceptance Rate 34%)

C.36 Ma X, Gui X*, Fan J, Zhao M, Chen Y, **Zheng K**. Professional medical advice at your fingertips: an empirical study of an online "Ask the Doctor" platform. In: *Proceedings of the 2018 ACM Conference on Computer Supported Cooperative Work (CSCW '18)*. 2018;2(116):1–22. DOI: 10.1145/3274385 (Acceptance Rate 25.6%)

C.35 Figueiredo MC,* Caldeira CM,* Reynolds TL,* Victory S,* **Zheng K**, Chen Y. Self-tracking for fertility care: collaborative support for a highly personalized problem. In: *Proceedings of the 2018 ACM Conference on Computer Supported Cooperative Work (CSCW '18)*. 2018;1(36):1–21. DOI: 10.1145/3134671 (Acceptance Rate 27%)

C.34 Chen Y,* Abel KT,* Cramer SC, **Zheng K**, Chen Y. Recovery in my lens: a study on stroke vlogs. AMIA Annu Symp Proc. 2018;1300–9. PMCID: PMC6371286 (Student Paper Competition Finalist & Outstanding Student Paper in the Field of Consumer and Pervasive Health Informatics)

C.33 Eikey EV,* Booth KM, Chen Y, **Zheng K**. The use of general health apps among users with specific conditions: why college women with disordered eating adopt food diary apps. AMIA Annu Symp Proc. 2018;1243–52. PMCID: PMC6371267

C.32 Wu DT,* **Zheng K**, Bradley DJ. CHCi – a dynamic data platform for clinical data capture and use. AMIA Jt Summits Transl Sci Proc. 2018;246–55. PMCID: PMC5961796

C.31 Eletriby MR,* Reynolds TL,* Jain R, **Zheng K**. Investigating named entity recognition of contextual information in online consumer health text. In: *Proceedings of the 2017 IEEE International Conference on Intelligent Computing and Information Systems (ICICIS '17)*. 2017;396–402. DOI: 10.1109/INTELCIS.2017.8260078

C.30 Wu DT,* Smart N,* Ciemins E, Lanham HJ, Lindberg C, **Zheng K**. Using EHR audit trail logs to analyze clinical workflow: a case study from community-based ambulatory clinics. AMIA Annu Symp Proc. 2017;1820–7. PMCID: PMC5977693

C.29 Reynolds TL,* Ali N,* McGregor E,* O'Brien T,* Longhurst C, Rosenberg AL, Rudkin SE, **Zheng K**. Understanding patient questions about their medical records in order to improve patient portal design. AMIA Annu Symp Proc. 2017;1468–77. PMCID: PMC5977702

C.28 Hussain MI,* Reynolds TL,* Mousavi FE,* Chen Y, **Zheng K**. *Thinking Together*: modeling clinical decision-support as a sociotechnical system. AMIA Annu Symp Proc. 2017;969–78. PMCID: PMC5977688

C.27 Gui X,* Wang Y,* Kou Y, Reynolds TL,* Chen Y, Mei Q, **Zheng K**. Understanding the patterns of health information dissemination on social media during the Zika outbreak. AMIA Annu Symp Proc. 2017;820–9. PMCID: PMC5977662

C.26 Figueiredo MC,* Caldeira CM,* Chen Y, **Zheng K**. Routine self-tracking of health: reasons, facilitating factors, and the potential impact on health management practices. AMIA Annu Symp Proc. 2017;706–14. PMCID: PMC5977566 (Student Paper Competition Finalist & Third Place)

C.25 Caldeira CM,* Chen Y,* Chan L,* Pham V,* Chen Y, **Zheng K**. Mobile apps for mood tracking: an analysis of features and user reviews. AMIA Annu Symp Proc. 2017;495–504. PMCID: PMC5977660

C.24 Tang J,* Wang Y,* **Zheng K**, Mei Q. End-to-end learning for short text expansion. In: *Proceedings of the 2017 ACM International Conference on Knowledge Discovery and Data Mining (KDD '17)*. 2017;1105–13. DOI: 10.1145/3097983.3098166 (Acceptance Rate 17.5%)

C.23 Wang Y,* **Zheng K**, Xu H, Mei Q. Clinical word sense disambiguation with interactive search and classification. AMIA Annu Symp Proc. 2016;2062–71. PMCID: PMC5333264

C.22 Vydiswaran VGV,* Liu Y,* **Zheng K**, Hanauer DA, Mei Q. User-created groups in health forums: what makes them special? In: *Proceedings of the Eighth International Association for the Advancement of Artificial Intelligence (AAAI) Conference on Weblogs and Social Media (ICWSM '14)*. 2014;515–24. (Acceptance Rate 23%)

C.21 Vydiswaran VGV,* Mei Q, Hanauer DA, **Zheng K**. Mining consumer health vocabulary from community-generated text. AMIA Annu Symp Proc. 2014;1150–9. PMCID: PMC4419967 (Distinguished Paper Award)

C.20 Wheeler NJ,* DeLucia PR, Esquibel KA, Randell JA, Stevenson JG, Gage T, **Zheng K**. Focused ethnographic observations: cues to medication administration. In: *Proceedings of the 2014 International Annual Meeting of the Human Factors and Ergonomics Society (HFES '14)*. 2014;58(1):1257–61. DOI: 10.1177/1541931214581262

C.19 Hanauer DA, Mei Q, Malin B, **Zheng K**. Location bias of identifiers in clinical narratives. AMIA Annu Symp Proc. 2013;560–9. PMCID: PMC3900199

C.18 Wu Y, Lei J,* Wei WQ, Tang B, Denny JC, Rosenbloom ST, Miller RA, Giuse DA, **Zheng K**, Xu H. Analyzing differences between Chinese and English clinical text: a cross-institution comparison of discharge summaries in two languages. Stud Health Technol Inform. 2013;192:662–6. PMCID: PMC5369652

C.17 Wu DT,* Hanauer DA, Mei Q, Clark PM, An LC, Lei J, Proulx J, Zeng-Treitler Q, **Zheng K**. Applying multiple methods to assess the readability of a large corpus of medical documents. Stud Health Technol Inform. 2013;192:647–51. PMCID: PMC5369652

C.16 Zhou X, **Zheng K**, Ackerman MS, Hanauer DA. Cooperative documentation: the patient problem list as a nexus in electronic health records. In: *Proceedings of the 2012 ACM Conference on Computer Supported Cooperative Work (CSCW '12)*. 2012;911–20. DOI: 10.1145/2145204.2145340 (Acceptance Rate 20%)

C.15   Hanauer DA, Liu Y, Mei Q, Manion FJ, Balis UJ, **Zheng K**. *Hedging their mets*: the use of uncertainty terms in clinical documents and its potential implications when sharing the documents with patients. AMIA Annu Symp Proc. 2012;321–30. PMCID: PMC3540426

C.14   Zhou X, Ackerman MS, **Zheng K**. CPOE workarounds, boundary objects, and assemblages. In: *Proceedings of the 2011 ACM Conference on Human Factors in Computing Systems (CHI '11)*. 2011;3353–62. DOI: 10.1145/1978942.1979439 (Acceptance Rate 26%)

C.13   **Zheng K**, Mei Q, Yang L,* Manion FJ, Balis UJ, Hanauer DA. Voice-dictated versus typed-in clinician notes: linguistic properties and the potential implications on natural language processing. AMIA Annu Symp Proc. 2011;1630–8. PMCID: PMC3243272

C.12   Yang L,* Mei Q, **Zheng K**, Hanauer DA. Query log analysis of an electronic health record search engine. AMIA Annu Symp Proc. 2011;915–24. PMCID: PMC3243246

C.11   Lammers EJ,* **Zheng K**. Characteristics associated with hospital health IT vendor switching and dropping. AMIA Annu Symp Proc. 2011;742–9. PMCID: PMC3243192

C.10   Zhou X,* Ackerman MS, **Zheng K**. Doctors and psychosocial information: records and reuse in inpatient care. In: *Proceedings of the 2010 ACM Conference on Human Factors in Computing Systems (CHI '10)*. 2010;1767–76. DOI: 10.1145/1753326.1753592 (Acceptance Rate 22%)

C.9   Veinot TC, Meadowbrooke C, Newman MW, **Zheng K**, Perry EE. Routines that mask the pain: the information world of a dialysis clinic. In: *Proceedings of the 2010 Annual Meeting of the American Society for Information Science & Technology (ASIS&T '10)*. 2010;47(1)1–4. DOI: 10.1002/meet.14504701254 (Acceptance Rate 24.5%)

C.8   **Zheng K**, Newman MW, Veinot TC, Kim H, Meadowbrooke C, Perry EE. Using online peer-mentoring to empower young adults with end-stage renal disease: a feasibility study. AMIA Annu Symp Proc. 2010;942–6. PMCID: PMC3041447

C.7   Veinot TC, **Zheng K**, Lowery JC, Souden M, Keith R. Using electronic health record systems in diabetes care: emerging practices. In: *Proceedings of the 2010 ACM International Health Informatics Symposium (IHI '10)*. 2010;240–9. PMCID: PMC4175736 (Among Top 17% selected for Oral Presentation)

C.6   Zhou X,* Ackerman MS, **Zheng K**. Computerization and information assembling process: nursing work and CPOE adoption. In: *Proceedings of the 2010 ACM International Health Informatics Symposium (IHI '10)*. 2010;36–45. DOI: 10.1145/1882992.1883000 (Among Top 17% Selected for Oral Presentation)

C.5   Lou A, **Zheng K**, Warden M, Bhavnani SK. Institutional infrastructure to support translational research. In: *Proceedings of the Sixth IEEE International Conference on e-Science (e-Science '10)*. 2010;49–56. DOI: 10.1109/eScience.2010.50 (Acceptance Rate 30%)

C.4   Zhou X,* Ackerman MS, **Zheng K**. *I just don't know why it's gone*: maintaining informal information use in inpatient care. In: *Proceedings of the 2009 ACM Conference on Human Factors in Computing Systems (CHI '09)*. 2009;2061–70. DOI: 10.1145/1518701.1519014 (Acceptance Rate 25%)

C.3   Bohnsack KJ,* Parker DP, **Zheng K**. Quantifying temporal documentation patterns in clinician use of AHLTA—the DoD's ambulatory electronic health record. AMIA Annu Symp Proc. 2009;50–4. PMCID: PMC2815385

C.2   **Zheng K**, Padman R, Johnson MP. User interface optimization for an electronic medical record system. In: *Proceedings of the 2007 World Congress on Health and Biomedical Informatics (MedInfo '07)*. 2007;129(2):1058–62. PMID: 17911877 (Best Paper Nomination)

C.1 **Zheng K**, Padman R, Johnson MP, Engberg JB, Diamond HS. An adoption study of a clinical reminder system in ambulatory care using a developmental trajectory approach. In: *Proceedings of the 2004 World Congress on Health and Biomedical Informatics (MedInfo '04).* 2004;107(2):1115–9. PMID: 15360986

(*c*) Books

B.7 **Zheng K**, Westbrook J, Patel VL, eds. *Reengineering Clinical Workflow in the Digital and AI Era: Toward Safer and More Efficient Care.* 2nd ed. Cham, Switzerland: Springer Nature Switzerland AG. 2025. ISBN: 978-3-031-82971-0

B.6 **Zheng K**, Westbrook J, Kannampallil TG, Patel VL, eds. *Reengineering Clinical Workflow for Safer and More Efficient Care.* Cham, Switzerland: Springer Nature Switzerland AG. 2019. ISBN: 978-3-030-16916-9

B.5 Associate Editor, Leviss J, ed. *HIT or Miss, 3rd Edition: Lessons Learned from Health Information Technology Projects.* Boca Raton, FL: CRC Press. 2019. ISBN: 978-0-367-14346-6

B.4 Fengshan W, **Zheng K** (Chief Translators), *The Well-Managed Healthcare Organization (7th Edition) by Kenneth R. White and John R. Griffith.* Tianjin, China: Tianjin University Press. 2017. ISBN: 978-7-561-85791-5 (in Chinese)

B.3 Li J, Huang Z, Yu S, Bao H, **Zheng K**, eds. *Biomedical Semantic Technology.* Hangzhou, China: Zhejiang University Press. 2012. ISBN: 978-7-308-10129-5 (in Chinese)

B.2 **Zheng K**, Qin Q. *Pursue Overseas Higher Education via Internet.* Shanghai, China: Shanghai Science & Technology Press. 2001. ISBN: 978-7-542-82525-4 (in Chinese)

B.1 Zhu ZB, **Zheng K**. *Road to World Wide Web: A Comprehensive Guide.* Shanghai, China: Fareast Press. 1997. ISBN: 978-7-806-13429-0 (in Chinese)

(*d*) Reports

R.4 **Zheng K**, Ciemins E, Lanham HJ, Lindberg C. *Examining the Relationship between Health IT and Ambulatory Care Workflow Redesign.* AHRQ Publication No. 15-0058-EF. Rockville, MD: Agency for Healthcare Research and Quality. July 2015.

R.3 McDonnell C, Werner K, Wendel L. *Electronic Health Record Usability: Vendor Practices and Perspectives.* AHRQ Publication No. 09(10)-0091-3-EF. Rockville, MD: Agency for Healthcare Research and Quality. May 2010. (Member of Expert Panel)

R.2 Armijo D, McDonnell C, Werner K. *Electronic Health Record Usability: Interface Design Considerations.* AHRQ Publication No. 09(10)-0091-2-EF. Rockville, MD: Agency for Healthcare Research and Quality. October 2009. (Member of Expert Panel)

R.1 Armijo D, McDonnell C, Werner K. *Electronic Health Record Usability: Evaluation and Use Case Framework.* AHRQ Publication No. 09(10)-0091-1-EF. Rockville, MD: Agency for Healthcare Research and Quality. October 2009. (Member of Expert Panel)

(*e*) Refereed Book Chapters

RBC.7 Mei Q, Hanauer DA, **Zheng K**. Medical domain search ranking. In: Chang Y, Long B, eds. *Relevance Ranking for Vertical Search Engines.* Cambridge, MA: Elsevier Inc. 2014;43–58. ISBN: 978-0-124-07171-1

RBC.6 Hanauer DA, **Zheng K**, Mei Q, Choi SW. Full-text search in electronic health records: challenges and opportunities. In: Kutais BG, ed. *Internet Policies and Issues.* Hauppauge, NY: Nova Science Publishers. 2011;7:125–40. ISBN: 978-1-617-28319-2

RBC.5 **Zheng K**. Clinical decision-support systems. In: Bate MJ, Maack MN, eds. *Encyclopedia of Library and Information Sciences*. New York City, NY: Taylor & Francis Group. 2009;1(1):1061–9. ISBN: 978-0-849-39712-7

RBC.4 **Zheng K**, Padman R, Johnson MP, Hasan S. Guideline representation ontologies for evidence-based medicine practice. In: Khoumbati K, Srivastava A, Dwivedi YK, Lal B, eds. *Handbook of Research on Advances in Health Informatics and Electronic Healthcare Applications*. Hershey, PA: Medical Information Science Reference. 2009;234–54. ISBN: 978-1-605-66030-1

RBC.3 **Zheng K**, Padman R, Johnson MP, Diamond HS. Evaluation of healthcare IT applications: the user acceptance perspective. In: Kacprzyk J, ed. *Studies in Computational Intelligence*. Heidelberg, Germany: Springer Berlin. 2007;65:49–78. ISBN: 978-3-540-72374-5

RBC.2 **Zheng K**, Padman R, Johnson MP, Diamond HS. User acceptance and adoption of a clinical reminder system: interpreting the effects of user characteristics. In: Trauth EM, ed. *Encyclopedia of Gender and Information Technology*. Hershey, PA: Medical Information Science Reference. 2005;1312–7. ISBN: 978-1-591-40815-4

RBC.1 **Zheng K**, Bajaj A, Daponte BO, Engberg JB. A field study of internet behavior among graduate IT students: interpreting gender differences in internet usage and task preferences. In: Trauth EM, ed. *Encyclopedia of Gender and Information Technology*. Hershey, PA: Medical Information Science Reference. 2005;1220–5. ISBN: 978-1-591-40815-4

(*f*) Non-Refereed Book Chapters

BC.11 **Zheng K**, Zhao J.* Public health informatics. In: Boulton ML, ed. *Maxcy-Rosenau-Last Public Health & Preventive Medicine, 16th ed.* New York City, NY: McGraw-Hill Professional Publishing. 2022. ISBN: ISBN 978-1-259-64451-1

BC.10 Eikey EV,* Chen Y, **Zheng K**. Unintended adverse consequences of health it implementation: workflow issues and their cascading effects. In: Zheng K, Westbrook J, Kannampallil TG, Patel VL, eds. *Cognitive Informatics: Reengineering Clinical Workflow for Safer and More Efficient Care.* Cham, Switzerland: Springer Nature Switzerland AG. 2019;3–7. ISBN: 978-3-030-16915-2

BC.9 **Zheng K**, Westbrook J, Kannampallil TG, Patel VL. Clinical workflow in the health IT era. In: Zheng K, Westbrook J, Kannampallil TG, Patel VL, eds. *Cognitive Informatics: Reengineering Clinical Workflow for Safer and More Efficient Care.* Cham, Switzerland: Springer Nature Switzerland AG. 2019;31–43. ISBN: 978-3-030-16915-2

BC.8 **Zheng K**, Westbrook J, Kannampallil TG, Patel VL. Clinical workflow: the past, present, and future. In: Zheng K, Westbrook J, Kannampallil TG, Patel VL, eds. *Cognitive Informatics: Reengineering Clinical Workflow for Safer and More Efficient Care.* Cham, Switzerland: Springer Nature Switzerland AG. 2019;307–11. ISBN: 978-3-030-16915-2

BC.7 **Zheng K**. User interface: poorly designed hinder adoption. In: Leviss J, ed. *HIT or Miss, 3rd Edition: Lessons Learned from Health Information Technology Projects.* Boca Raton, FL: CRC Press. 2019;203–8. ISBN: 978-0-367-14346-6

BC.6 Zhou X, Ackerman MS, **Zheng K**. The recording and reuse of psychosocial information in care. In: Ackerman M, Prilla M, Stary C, Herrmann T, Goggins S, eds. *Designing Healthcare That Works: A Sociotechnical Approach.* Cambridge, MA: Elsevier Inc. 2018;133–48. ISBN: 978-0-128-12583-0

BC.5 **Zheng K**, Hanauer DA, Weibel N, Agha Z. Computational ethnography: automated and unobtrusive means for collecting data *in situ* for human–computer interaction evaluation studies. In: Patel VL, Kannampallil TG, Kaufman DR, eds. *Cognitive Informatics for Biomedicine:*

Human Computer Interaction in Healthcare. Cham, Switzerland: Springer Nature Switzerland AG. 2015;111–40. ISBN: 978-3-319-17271-2

BC.4   Mahraj K,* **Zheng K**. Can information technology enable transformative changes in healthcare? In: Kronenfeld JJ, Parmet WE, Zezza MA, eds. *SAGE Debates on Health Care Reform.* Thousand Oaks, CA: Sage Publications. 2012;494–508. ISBN: 978-1-412-99602-0

BC.3   **Zheng K**. Computational ontologies for computerized clinical decision support. In: Li J, Huang Z, Yu S, Bao H, Zheng K, eds. *Biomedical Semantic Technology.* Hangzhou, China: Zhejiang University Press. 2012;402–6. ISBN: 978-7-308-10129-5 (in Chinese)

BC.2   He JW, Xu H, **Zheng K**. China's health care system. In: Johnson JA, Stoskopf C, eds. *Comparative Health Systems: Global Perspectives.* Boston, MA: Jones and Bartlett Publishers. 2010;33–57. ISBN: 978-0-763-75379-5

BC.1   **Zheng K**. The clinical reminder system. In: Tan JKH, Payton F, eds. *Adaptive Health Management Information Systems: Concepts, Cases, & Practical Applications.* New York City, NY: An Aspen Publication. 2009;351–8. ISBN: 978-0-763-75691-8

(*g*) Refereed Workshop Papers

Lightly refereed.

W.12   Su Z,* **Zheng K**, Chen Y. Envisioning data-driven AI technology in asthma care. The 2021 CHI Workshop on Realizing AI in Healthcare: Challenges Appearing in the Wild, May 2021.

W.11   Reynolds TL,* Dameff C, Longhurst CA, **Zheng K**. Who's left behind by smartphone-based personal health records? The 2020 Workshop on Interactive Systems in Healthcare (WISH '20), November 2020.

W.10   Li J, **Zheng K**, Xu H, Mei Q, Wang Y. The strength of the weakest supervision: topic classification using class labels. In: *Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL '19): Student Research Workshop.* 2019;22–8. DOI: 10.18653/v1/N19-3004

W.9   Figueiredo MC,* Caldeira CM,* Reynolds TL,* Victory S,* **Zheng K**, Chen Y. Self-tracking for fertility care: collaborative support for a highly-personalized problem. The 2017 Workshop on Interactive Systems in Healthcare (WISH '17), November 2017.

W.8   Reynolds TL,* McGregor E,* **Zheng K**. "*Where am I?*" Finding patients in the process of navigating a complex clinical information space. The 2017 Workshop on Interactive Systems in Healthcare (WISH '17), November 2017.

W.7   Bhavnani SK, Dang B, **Zheng K**, Weber C. Perceived usefulness and usability of a visual analytical system for toxic chemical identification: results from a national survey of first responders. The 2013 Workshop on Visual Analytics in Healthcare (VAHC '13), November 2013.

W.6   Wu DT,* Yang L,* Mei Q, Hanauer DA, **Zheng K**. Towards intelligent and socially oriented query recommendation for electronic health records retrieval. Workshop on Health Search and Discovery: Helping Users and Advancing Medicine. The 2013 ACM Conference on Research and Development in Information Retrieval (SIGIR '13), August 2013.

W.5   Veinot TC, **Zheng K**, Newman MW, Perry EE, Meadowbrooke C. Reducing health disparities in end stage renal disease: an online peer mentoring approach. The 2010 Workshop on Interactive Systems in Healthcare (WISH '10), April 2010.

w.4 Zhou X,* Ackerman MS, **Zheng K**. Clinician workarounds in use of computerized prescriber order entry. The 2010 Workshop on Interactive Systems in Healthcare (WISH '10), April 2010.

w.3 **Zheng K**, Mei Q, Hanauer DA. Patterns of collaborative search in narrative patient care documents stored in electronic health records. CSCW Research in Healthcare: Past, Present, and Future. The 2010 ACM Conference on Computer Supported Cooperative Work (CSCW '10), February 2010.

w.2 Zhou X,* Ackerman MS, **Zheng K**. Collaborative making: working documents as information assemblage. CSCW Research in Healthcare: Past, Present, and Future. The 2010 ACM Conference on Computer Supported Cooperative Work (CSCW '10), February 2010.

w.1 Lin YC,* Padman R, **Zheng K**, Solano FX, Cervenak J, Naim A. RFID-enabled analysis of service delivery and process visibility in ambulatory care. Pre-ICIS Workshop on RFID & Health. The 2008 International Conference on Information Systems (ICIS '08), December 2008.

(h) <u>Refereed Letters</u>

l.3 Hanauer DA, **Zheng K**. Paper versus EHR: simplistic comparisons may not capture current reality. J Am Med Inform Assoc. 2015;22(e1):e219–20. PMID: 25769686

l.2 Hanauer DA, **Zheng K**. Measuring the impact of health information technology. Appl Clin Inform. 2012;3(3):334–6. PMID: 23646081

l.1 **Zheng K**, Hanauer DA. Assessing the effects of computer-based documentation on parent-provider communication. Pediatrics. 2009;123(2):e357–8. PMID: 19171591

(i) <u>Refereed Abstracts</u>

Too many. Stop tracking as of May 2025.

(j) <u>Other Publications (Non-Refereed)</u>

o.5 Poon EG, Rosenbloom ST, **Zheng K**. Health information technology and clinician burnout: current understanding, emerging solutions, and future directions. J Am Med Inform Assoc. 2021. PMID: 33871016

o.4 **Zheng K**, Chen Y. Introduction to the Minitrack on health technologies that interface patients and providers. In: *Proceedings of the 2018 Hawaii International Conference on System Sciences (HICSS '18)*. 2018;2904–5. DOI: 10.24251/HICSS.2018.368

o.3 Veinot TC, Bash N, Bragg-Gresham JL, Dant W, Gillespie B, Heung M, Krein SL, Saran R, **Zheng K**. Changing routine practice to enhance the cardiovascular safety of hemodialysis care. Nephrol News Issues. April 22, 2016. URL: http://www.nephrologynews.com/enhancing-cardiovascular-safety-of-hemodialysis-care/

o.2 Calvitti A, Weibel N, Hochheiser H, Liu L, **Zheng K**, Weir C, Ashfaq S, Rick S, Agha Z, Gray B. Can eye tracking and EHR mouse activity tell us when clinicians are overloaded? In: Saleem JJ, ed. *The Human Factors Quarterly*. Office of Informatics and Analytics, Veterans Health Administration. 2014;8. URL: http://content.govdelivery.com/accounts/USVHA/bulletins/cfd5d2#article4

o.1 Banaszak-Holl J, **Zheng K**, Griffith JR. Critical next steps in evidence-based management of health care organizations. Health Care Manage Rev. 2009;34(3):219–21. PMID: 19625825

Grants & Contracts

Dollar amount shown is total cost unless otherwise specified.

(*a*) Active

C26CR9951S (Kim), 10/01/2025–09/30/2026
Cancer Research Coordinating Committee, University of California Research Initiatives, $95,000
Refinement and Usability of e-Support for Pancreatic Cancer Patients
Role: Co-Investigator

298520 (Zhao), 03/21/2025–05/31/2026
Merck & Co., Inc., $497,866
A Non-interventional Study to Assess Long-COVID Symptoms via Physician Notes in RWD
Role: Site PI

(Sadigh), 03/01/2025–02/28/2026
CSUF-UCI Cancer Health Equity Research Partnership (CHERP), $100,000
Provider Language in Primary Care Notes, and the Association with Cancer Screening Recommendations
Role: Co-Investigator

RI-FLORIDA-01-PS8 (Shenkman), 01/01/2025–12/31/2028
PCORI, $13,485,429
OneFlorida+ Clinical Research Network Phase 4
Role: Site PI

M25PR9018 (Nemati), 01/01/2025–12/31/2027
UC Multicampus Research Programs and Initiatives (MRPI), $710,634
CALI-GREAT: California's Groundbreaking and Responsible Evaluation of AI Tech for Sepsis Prevention
Role: Site PI

RI-FLORIDA-01-PS7 (Shenkman), 09/01/2024–02/28/2026
PCORI, $500,000
PCORnet Enhancement Project: Enhancing Capacity of the PCORnet Common Data Model to Support Patient-Centered Comparative Clinical Effectiveness Research
Role: Site PI

U19AI181968 (Felgner), 08/20/2024–07/31/2027
NIH/NIAID, $33,116,067
The UCI Vaccines for Pandemic Preparedness Center (VPPC)
Role: PI, Data Management Core

U01NS139215 (Vilain), 08/01/2024–07/31/2028
NIH/NINDS, $1,584,955 (Y1 and Y2)
Southern California Undiagnosed Disease Network
Role: Co-Investigator

UM1TR004927 (Vilain, Cooper), 07/16/2024–06/30/2031
NIH/NCATS, $28,394,693
Institute for Clinical and Translational Science
Role: Director of Biomedical Informatics

OT2OD036428 (Anton-Culver), 05/01/2024–07/31/2026
NIH/Office of The Director, $5,137,147

All of Us Southern California Consortium (AoUSCC)
Role: Co-PI

U24CA269315 (Hanauer), 09/15/2023–08/31/2028
NIH/NCI, $4,032,981
Extending the Capabilities and Reach of EMERSE in Support of Cancer Research
Role: Co-Investigator

R01EB031030 (Kuo), 09/30/2022–06/30/2026
NIH/NIBIB, $1,306,442
SOCAL: Privacy-protecting Sharing Of Clinical Data Across Laboratories
Role: Co-Investigator

21RD003 (Wu), 02/15/2022–02/13/2026
California Air Resources Board, $500,000
Examining the Health Impacts of Short-Term Repeated Exposure to Wildfire Smoke
Role: Co-Investigator

90PH0010 (Zheng, Chen, Bruckner), 09/21/2021–09/20/2026
ONC, $7,232,582
Transforming Public Health Informatics and Technology Training to Advance Diversity and Equity
Role: PI

R01HG011066 (Ohno-Machado), 05/01/2020–02/28/2026
NIH/NHGRI, $3,940,123
iAGREE: A Multi-Center, Networked Patient Consent Study
Role: Site PI & Usability Lead

(*b*) Active: Other

R33HS028892 (Feldman, Jariwala), 04/01/2023–03/31/2028
AHRQ, $700,156
A Novel Patient-facing Mobile Platform to Collect and Implement Patient-Reported Outcomes and Voice Biomarkers in Underserved Adult Patients with Asthma
Role: Paid Consultant

R01AA029400 (Lin, Bonar), 09/20/2021–05/31/2026
NIH/NIAAA, $1,387,479
Harnessing Telemedicine to Improve Alcohol Use Disorder Outcomes in Primary Care Patients
Role: Paid Consultant

R01MH126871 (Czyz), 09/07/2021–06/30/2026
NIH/NIMH, $1,463,570
Adaptive Intervention to Prevent Adolescent Suicidal Behavior Following Psychiatric Hospitalization: A Sequential Multiple Assignment Randomized Trial
Role: Paid Consultant

(*c*) Completed

CORCL9012 (Zheng), 03/25/2025–09/30/2025
Academic Senate Council on Research, Computing and Libraries (CORCL), $3,352 (direct cost)
Developing and Evaluating Machine-Learning Models for Assessing Discharge Readiness in Spine Surgery Patients
Role: PI

RI-FLORIDA-01-PS3 (Shenkman), 07/31/2023–12/31/2024

PCORI, $475,245
Expanding Demographic Representation of PCORnet
Role: Site PI

U01TS000308 (Bartell), 09/30/2019–09/29/2024
CDC, $1,000,000
UC Irvine Per- and Poly-Fluoroalkyl Substances (PFAS) Health Study
Role: Co-Investigator

UH3DA050173 (Walton, Bonar), 09/30/2019–08/31/2024
NIH/NIDA, $5,171,693
Optimized Interventions to Prevent Opioid Use Disorder among Adolescents and Young Adults in the Emergency Department
Role: Paid Consultant

UL1TR001414 (Cooper), 08/15/2019–06/30/2024
NIH/NCATS, $17,978,400
Institute for Clinical and Translational Science
Role: Director of Biomedical Informatics

OT2OD032581-01 (Vishwanatha), 09/17/2021–09/16/2023
NIH/Office of The Director, $50,000,000
AIM-AHEAD Coordinating Center: Artificial Intelligence/Machine Learning Consortium to Advance Health Equity and Research Diversity
Role: Co-Investigator, Co-Lead of the Data & Disparities Unit, Data and Research Core

19-02952 (Rodriguez), 05/18/2020–06/30/2023
Arnold Ventures, $2,712,673
The Sources and Consequences of Prison Violence
Role: Co-Investigator, Informatics Lead

2208383 (Bradley, Tang), 06/01/2022–05/31/2023
NSF, $255,990
STTR Phase I: An Integrated Biomedical Platform and Custom Algorithm to Optimize Feeding Protocols for Preterm Infants
Role: Co-Investigator

OT2OD026552 (Ohno-Machado), 04/01/2018–03/31/2023
NIH/Office of The Director, $58,453,967
California Precision Medicine Research Program Consortium
Role: Co-Investigator

UCI-Internal (Ma, Zheng), 02/01/2022–01/31/2023
UCI ICTS/VA Long Beach Informatics Pilot Award, $50,000
Outcomes from the National Database of Lymphoid Malignancies in US Veterans Using Data from the Veterans Health Administration, the Largest Integrated Healthcare System
Role: Co-PI

R01HL136835 (Ohno-Machado), 12/15/2017–12/31/2022
NIH/NHLBI, $1,656,557
Protecting Privacy and Facilitating Shared Access of Clinical and Genetic Data of Special Populations
Role: Co-Investigator, Usability Lead

UL1TR001414-06S2 (Cooper), 10/01/2020–09/30/2022
NIH/NCATS, $498,289

University of California Health Participation in the National COVID Cohort Collaborative (N3C)
Role: Site PI

HHSD2002013M53968B (Ball), 05/04/2020–09/30/2022
CDC/Westat, $670,225 (subaward total cost)
Virtual Network to Investigate the Trajectory of COVID-19-Related Severe Outcomes in an Electronic Cohort of Elderly Persons and Persons with High Risk Conditions
Role: Site PI, Southern California Consortium

417-ITS-UCI-2019 (Sorkin, Mukamel), 11/01/2018–06/30/2022
California Mental Health Services Authority (CalMHSA), $9,500,000
Formative Evaluation of the Innovation Technology Suite Project: Cohort 1
Role: Co-Investigator, Co-Lead, Data Repository and Data Dashboard

R18HS025645 (Jariwala), 08/01/2018–05/31/2022
AHRQ, $1,481,014
Adapting, Scaling, and Spreading an Algorithmic Asthma Mobile Intervention to Promote Patient-Reported Outcomes within Primary Care Settings
Role: Paid Consultant

U24CA204863 (Hanauer), 08/17/2017–03/31/2022
NIH/NCI, $3,934,064
Advanced Development and Dissemination of EMERSE for Cancer Phenotyping from Medical Records
Role: Co-Investigator, Usability Lead

(Amin), 10/11/2021–02/09/2022
The MITRE Corporation, $1,377,081
Real World Evidence (RWE) to Accelerate COVID-19 Therapeutics
Role: Co-Investigator

UCI-Internal (Cadiz), 01/29/2021–01/28/2022
Genetic Epidemiology Research Institute and UCI Office of Data and IT, $2,500 (direct cost)
Safer Medication Use for All of Us: Developing a Clinical Prediction Model for Adverse Drug Events (SPADE)
Role: Co-Investigator

HHSD2002013M53968B (Ball), 02/01/2020–12/15/2021
CDC/Westat, $293,174 (subaward total cost)
Virtual Network to Investigate Risk of Influenza-Associated Severe Outcomes and Influenza Vaccine Effectiveness Using Integrated Medical and Public Health Records
Role: Site PI, Southern California Consortium

IHS150327848 (Veinot), 11/01/2016–10/31/2021
PCORI, $6,775,863
Enhancing the Cardiovascular Safety of Hemodialysis Care: A Cluster-Randomized, Comparative Effectiveness Trial of Multimodal Provider Education and Patient Activation Interventions
Role: Co-Investigator, Informatics Lead

UCI-Internal (Khine) 10/15/2020–10/14/2021
SSoE MERI Seed Funds, $45,000
UCI Transdisciplinary Approach to Pain
Role: Co-PI

UCI-Internal (Khine) 10/15/2020–10/14/2021
UCI Office of Research Research Seed Funding Program, $25,000

UCI Transdisciplinary Approach to Pain
Role: Co-PI

R01AA026574 (Patrick), 09/26/2018–08/31/2021
NIH/NIAAA, $1,280,120
An Adaptive Preventive Intervention to Optimize the Transition from Universal to Indicated Resources for College Student Alcohol Use
Role: Paid Consultant

GBMF9639 (Ohno-Machado), 05/01/2020–07/31/2021
Gordon and Betty Moore Foundation, $500,000
Rapid Response Data for Discoveries (R2D2): COVID-19 Clinical Data Collection to Promote Better Outcomes
Role: Site PI

UCI-Internal (Bradley), 07/19/2020–01/15/2021
Beall Applied Innovation, $80,000 (direct cost)
Pedi-Sync: An Integrated Biomedical Platform with Clinical Algorithm for Determining Optimum Feeding Protocols for Preterm Infants
Role: Co-Investigator

UCI-Internal (Zheng), 06/01/2020–08/31/2020
Academic Senate Council on Research, Computing and Libraries (CORCL), $5,000 (direct cost)
A Pilot Study to Characterize How Sex and Gender information is obtained, recorded, and used in the Electronic Health Record
Role: PI

UG3DA050173 (Walton, Bonar), 09/30/2019–08/31/2020
NIH/NIDA, $699,050
Optimized Interventions to Prevent Opioid Use Disorder among Adolescents and Young Adults in the Emergency Department: Pilot
Role: Paid Consultant

UCI-Internal (Zheng), 06/01/2019–08/31/2019
Academic Senate Council on Research, Computing and Libraries (CORCL), $1,940 (direct cost)
A Pilot Study to Characterize External Forces that Influence Clinicians' Clinical Documentation Behavior
Role: PI

(Zheng), 10/01/2018–05/31/2019
SAP SE, €90,000
Understanding Prospective Users and Use Environments for Hands-free Clinical Documentation Technologies
Role: PI

(Smyth, Zheng), 10/01/2018–05/31/2019
SAP SE, €60,000
Understanding the Readiness of Automated Technologies for Speech to Text to Structured Information in a Clinical Setting
Role: Co-PI

UCI-Internal (Zheng), 06/01/2018–08/31/2018
Academic Senate Council on Research, Computing and Libraries (CORCL), $3,500 (direct cost)
Developing a Domain-Specific Sentiment Analyzer for Studying Health-Related Social Media Data
Role: PI

TR001414-04S1 (Cooper), 04/01/2018–03/31/2019
NIH/NCATS, $593,500
CTSA Program External Reviewer Exchange Consortium
Role: Co-Investigator, Informatics Lead

R01MH103244-04S1 (King), 07/21/2017–05/31/2020
NIH/NIMH, $248,831
Electronic Bridge to Mental Health (eBridge) for College Students (Supplement)
Role: Co-Investigator, Informatics Lead

17IRG33460393 (Cramer), 07/01/2017–06/30/2019
American Heart Association (AHA) Innovative Research Grant, $150,000
The Home is the Stroke Clinic of the Future
Role: Co-Investigator

UCI-Internal (Zheng), 06/01/2017–08/31/2017
Academic Senate Council on Research, Computing and Libraries (CORCL), $7,427 (direct cost)
Curbing the Opioid Epidemic with Computerized Clinical Decision Support
Role: PI

TR001872-01S1 (Collard), 02/01/2017–05/31/2018
NIH/NCATS, $414,706
Network Capacity Supplement: Clinical Trial Finder and PI Finder
Role: Site PI

(Bossen), 01/01/2017–06/30/2018
Danish Ministry of Higher Education and Science, kr. 282,937
Data-Driven Quality Improvement and Management in Healthcare
Role: Co-Investigator

OT2OD024611 (Anton-Culver, Ohno-Machado, Butte), 09/27/2016–08/31/2017
NIH/Office of The Director, $2,318,412
California Precision Medicine Consortium (Pilot)
Role: Co-Investigator

R01HS0249114 (Friese), 09/01/2016–08/31/2019
AHRQ, $1,430,301
"Communication Processes, Technology, and Patient Safety in Ambulatory Oncology Settings"
Role: Paid Consultant

UCI-Internal (Zheng), 06/01/2016–08/31/2016
Academic Senate Council on Research, Computing and Libraries (CORCL), $6,062 (direct cost)
Navigating Clinical Information: Improving Patient Portal Design through Understanding Patient Questions Asked in Online Health Forums
Role: PI

CDRN130604819 (Ohno-Machado), 10/01/2015–03/31/2019
PCORI, $9,378,814
Patient-centered SCAlable National Network for Effectiveness Research (pSCANNER)
Role: Site PI

R01HG008802 (Ohno-Machado), 09/21/2015–06/30/2018
iCONCUR: informed CONsent for Clinical data and biosample Use in Research
NIH/NHGRI, $1,324,059
Role: Site PI

UL1TR001414 (Cooper), 08/15/2015–07/14/2019
NIH/NCATS, $14,110,506
Institute for Clinical and Translational Science
Role: Director of Biomedical Informatics

I01HX00098201 (Ohno-Machado), 07/01/2015–06/30/2018
Veterans Affairs, $971,200
Design and Evaluation of User Centered Electronic Health Records (DEUCE)
Role: Co-Investigator

R21HS23786 (Patel), 06/01/2015–05/31/2017
AHRQ, $299,975
Feasibility of a Clinician Training Program to Improve Patient–Provider Communication in the Presence of Health IT Systems in the Exam Room
Role: Co-Investigator

R21HS023865 (Lee), 06/01/2015–05/31/2017
AHRQ, $300,000
Patient-Centered Data Visualizations for Diabetes
Role: Co-Investigator

(Burmeister), 10/01/2014–10/01/2016
Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research, $178,936 (direct costs)
Epigenetic Effects of Prenatal Environment Exposures
Role: Consultant

R01ES021465-02S1 (Meeker, Lozoff), 09/01/2014–03/31/2016
NIH/NLM, $75,623
Administrative Supplement for Informationist Services in NIH-funded Research Projects: Environmental Exposures, Early Iron Deficiency and Child Neurological Development
Role: PI of Administrative Supplement

R01MH103244 (King), 08/11/2014–05/31/2020
NIH/NIMH, $2,754,329
Electronic Bridge to Mental Health (eBridge) for College Students
Role: Co-Investigator, Informatics Lead

NIHA20131003 (Song), 01/01/2014–12/31/2014
National University of Singapore Initiative to Improve Health in Asia, $80,000 (direct costs)
The Demand of Diabetes Screening
Role: Co-Investigator

HHSM500201313017I (Li), 09/26/2013–12/31/2015
DHHS/CMS, $17,624,093
End Stage Renal Disease (ESRD) Quality Measure Development, Maintenance and Support—Task Order 003
Role: Co-Investigator

VA11812C0043 (Saran), 09/24/2012–10/01/2016
Veterans Affairs, $3,716,016
Developing a Comprehensive National Kidney Registry for the Department of Veterans Affairs
Role: Co-Investigator

UL1TR000433 (Shanley), 06/27/2012–12/31/2015

NIH/NCATS, $48,788,667
Michigan Institute for Clinical and Health Research (MICHR)
Role: Core Faculty, Biomedical Informatics

R13HS022817 (Chen), 09/01/2013–11/17/2013
AHRQ, $34,167 (direct costs)
Workshop On Interactive Systems In Healthcare (WISH) 2013: Bridging Communities
Role: Co-PI

(Zheng), 07/29/2013–06/29/2014
University of Michigan Department of Urology, $83,394 (direct costs)
Prostate Cancer Database Consolidation Project
Role: PI

(Zheng), 12/19/2012–12/31/2014
MCubed, $60,000 (direct costs)
Mining Social Media Data to Understand the Patterns of Spatiotemporal Dissemination of Health-related Information and Concerns during Public Health Crises
Role: PI

(Zheng), 09/01/2012–08/31/2013
UM Center of Excellence in Cancer Communications Research, $28,508 (direct costs)
Bridging the Gap between Information Availability and Information Utility when Sharing Narrative Clinician Notes with Patients
Role: PI

(Cohen), 09/01/2012–08/31/2013
The Walter J. McNerney Award, $24,998 (direct costs)
Practice Variation in Electronic Health Record Use and the Impact on Efficiency and Quality
Role: Faculty Advisor

HHSA290201000019I1 (Ciemins, Zheng), 06/01/2012–07/31/2015
AHRQ, $799,014
Using Health IT in Practice Redesign: Impact of Health IT on Workflow—A Multisite Field Study Applying Novel Methods to Better Understand the Causal Relationship between Health IT and Ambulatory Care Workflow Redesign
Role: Co-PI

(Zheng), 10/01/2010–09/30/2014
Michigan Congenital Heart Center, $311,965 (direct costs)
Effective Research Data Acquisition during Routine Patient Care
Role: PI

HHSN276201000032C (Zheng), 09/27/2010–03/26/2012
NIH/NLM, $301,251
Developing an Intelligent and Socially Oriented Search Query Recommendation Service for Facilitating Information Retrieval in Electronic Health Records
Role: PI

W81XWH1010606 (Zheng), 09/20/2010–06/01/2013
DoD/TATRC, $703,000
Assessing the Effect of a Handheld Decision-Support Device for Reducing Medication Errors
Role: PI

UB2HA20234 (Rachman), 09/01/2010–08/31/2013

HRSA, $1,999,951
The Community Health Applied Research Network (CHARN)—ARRA-Community Health Applied Research Network: A Community Alliance for Technology Enabled
Role: Co-Investigator

R21OH009441 (Bhavnani), 09/01/2010–08/31/2012
CDC/NIOSH, $418,000
Novel Systems for Rapidly Identifying Toxic Chemicals Based on Worker Symptoms
Role: Site PI

NRCD2 (Johnson), 08/06/2010–08/05/2011
AHRQ, $383,745
EHR Information Design and Usability Toolkit
Role: Expert Panelist

(Eisenberg, Zheng), 05/01/2010–04/30/2011
Office of the Provost, $10,000 (direct costs)
Detecting Catastrophic Events in Student Lives Using an Online Course Management System
Role: Co-PI

R41CA128117 (Nease), 04/01/2010–09/30/2012
NIH/NCI SBIR, $1,295,467
Chronic Disease Management System
Role: Paid Consultant

(Zheng), 12/01/2009–08/31/2011
The Walter J. McNerney Award, $24,397 (direct costs)
Knowledge Management of Management Knowledge: Understanding Current Best Practice among Healthcare Organizations
Role: PI

(Calhoun, Zheng), 06/01/2009–05/31/2010
The Gilbert Whitaker Fund, $9,860 (direct costs)
Practice-Centered Curriculum Research and Development for Graduate Health Information Technology Education
Role: Co-PI

R34MH083032 (King), 04/01/2009–12/31/2012
NIH/NIMH, $700,583
College Students with Elevated Suicide Risk: Enhancing Treatment Linkage
Role: Co-Investigator, Informatics Lead

N010911 (Zheng), 01/01/2009–12/31/2009
Trinity Health System, $14,605
Health IT Evaluation at the Trinity Health System: Review of Research Summaries
Role: PI

(Zheng), 12/01/2008–11/30/2009
Michigan Institute for Clinical and Health Research, $24,326 (direct costs)
A Community–University Partnership to Develop Technology-Enhanced Patient Empowerment Programs for People with Chronic Kidney Disease: Capacity Building, Feasibility Assessments, and Study Refinement
Role: PI

(Armijo), 09/01/2008–08/31/2009

Michigan Department of Community Health, $674,474
The State of Michigan Regional Health Information Exchange Planning Project in South Central Michigan
Role: Paid Consultant

290-07-10073T (McDonnell), 06/01/2008–05/31/2009
AHRQ, $362,402
Use of Dense Display of Data and Information Design Principles in Primary Care Health IT Systems
Role: Paid Consultant

RRP08-248 (Lowery), 06/01/2008–05/31/2009
Veterans Affairs, $63,850 (direct costs)
Information-User-Task Fit and the Utility of the Diabetes Cube
Role: Co-Investigator

(Perry), 06/01/2008–05/31/2009
National Kidney Foundation, $12,000 (direct costs)
Jump Starting the Life Journey of Young Adults Interrupted by Kidney Failure
Role: Co-Investigator

(Patel), 01/01/2008–04/30/2008
Grant Opportunities for Collaborative Spaces (GROCS), $11,000 (direct costs)
Casepedia: A Web 2.0 Case Study Repository Enabling Collaborative Learning
Role: Faculty Advisor

R18HS017191 (Pohl), 09/13/2007–08/31/2011
AHRQ, $1,184,765
A Partnership for Clinician EHR Use and Quality of Care
Role: Co-Investigator

(Richardson), 07/01/2007–06/30/2008
Michigan Institute for Clinical and Health Research, $10,000 (direct costs)
Translating an Internet-Mediated Walking Program into a Feasible Clinical Practice Tool
Role: Co-Investigator

(Diamond), 05/01/2005–04/30/2006
Proctor & Gamble Company, $40,000
Clinical Reminder System for Prevention, Diagnosis and Treatment of Osteoporosis
Role: Research Assistant and Technical Lead

D28HP10107 (Diamond), 07/01/2001–06/30/2005
HRSA, $400,000
Residency Training in GIM/GP
Role: Research Assistant and Technical Lead

(Diamond), 02/01/2001–01/31/2002
Merck & Co., Inc., $20,000 (direct costs)
Prevention of Corticosteroid Induced Osteoporosis
Role: Research Assistant and Technical Lead

(Zheng), 06/01/2000–05/31/2001
Carnegie Mellon University Graduate Student Research Fund, $3,000 (direct costs)
A Field Study of Internet Behavior: Usage Levels and Task Preferences
Role: PI

9979224 (Loftness), 10/01/1999–09/30/2004

NSF, $844,299
Creating a National Environmental Assessment Toolkit
Role: Paid Consultant

Invited Talks

"*The Past, Present, and Future of Human–Computer Interaction Research in Healthcare,*" Grand Rounds, Department of Health Outcomes & Biomedical Informatics, College of Medicine, University of Florida, Gainesville, FL, February 26, 2025

"*National Research Health Data Sharing Networks in the United States,*" Beijing Forum 2024 Emerging Engineering Special Forum: Empowering New Quality Medicine through Digital Intelligence Technology, Beijing, China, November 2, 2024

"*Design, Implementation, and Usability of the Electronic Medical Record Search Engine (EMERSE),*" EMERSE Community Meeting, May 23, 2023

"*UC Academic Health Centers Capabilities - UCI,*" UC Health Harnessing the Power of Real-World Evidence Conference, Irvine, CA, April 19, 2023

"*Principles for Designing and Developing a Workflow Monitoring Tool to Enable and Enhance Clinical Workflow Automation,*" with Danny Wu & Mustafa Ozkaynak, American Medical Informatics Association (AMIA) Webinars Clinical Information Systems Working Group Webinar, October 3, 2022

"*Infrastructures for Enabling Smarter Interface Technology,*" Special Seminar, Research Center for Connected Healthcare Big Data, Zhejiang Lab, Hangzhou, China, November 4, 2019

"***Infrastructures for Enabling Smarter Interface Technology,***" **Keynote, The 2019 International Conference on Infrastructures in Healthcare (infraHEALTH '19), Vienna, Austria, May 30, 2019**

"*The Natural Language Processing (NLP) Initiative at UC Irvine,*" The Medical Intelligence and Innovation Institute (MI3) Monthly Meeting, Children's Hospital of Orange County (CHOC), Orange, CA, April 8, 2019

"*How Much is Too Much? Understanding the Tipping Point of Clinician Perception of Alert Fatigue with Drug-Drug Interaction Alerts,*" Research Seminar, School of Psychology, Beijing Normal University, Beijing, China, June 29, 2018

"*Informatics-Based Ethnographic Methods to Understand the Behavior and Underlying Reasoning by Medical Providers and Patients,*" Research Seminar, Healthcare Informatics Engineering Research Center, College of Biomedical Engineering and Instrument Science, Zhejiang University, Hangzhou, China, June 24, 2018

"*Electronic Health Records Adoption in the U.S. and the Implications for Data Use and Reuse: Opportunities and Challenges,*" The US–Denmark Workshop on Datafication of Healthcare: Transforming Practices, Roles, and Knowledge, Irvine, CA, August 9, 2017

"*Caveats for Using Electronic Health Records Data in Clinical and Translational Research,*" The National Child Health Research Acceleration through Multi-site Planning (CHAMP) 2017 Annual Meeting, Irvine, CA, January 24, 2017

"*Latest Research on Health Information Technology's Unintended Consequences,*" with Yunan Chen & Ross Koppel, American Medical Informatics Association (AMIA) Webinars, AMIA Webinar Education Center, October 31, 2016

"*Electronic Health Records Adoption and the Implications for Health Services Research,*" Department of Health Policy and Management Research Seminar Series, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC, October 7, 2016

"*Quantifying the Impact of Health IT on Clinical Workflow,*" Healthcare Informatics Speaker Series, Department of Biomedical and Health Informatics, Children's Hospital of Philadelphia (CHOP), Philadelphia, PA, April 22, 2016

"*Human–Computer Interaction and Processing of Medical Text and Social Media,*" Research Colloquium, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, Irvine, CA, May 7, 2015

"*Improving Health IT Usability,*" Research Seminar, Division of Biomedical Informatics, School of Medicine, University of California, San Diego, La Jolla, CA, April 20, 2015

"*Introduction to University of Michigan's Master of Health Informatics Program,*" The 2015 Coast Consortium for Biomedical and Health Informatics: A Celebration of Partnerships in Informatics Research and Education, Milwaukee, WI, April 18, 2015

"*Modeling the Impact of Health IT on Clinical Workflow,*" Research Seminar, Department of Biomedical and Health Information Sciences, College of Applied Health Sciences, University of Illinois Chicago, Chicago, IL, November 25, 2014

"*Use of Administrative Data vs. Electronic Health Records for Health Services Research,*" Workshop for Integrating and Discussing Topics in Healthcare (WIDTH), University of Michigan, Ann Arbor, MI, September 26, 2014

"*Modeling the Impact of Health IT on Clinical Workflow,*" John P. McGovern Lectureship in Biomedical Computing and Imaging, School of Biomedical Informatics, University of Texas Health Science Center at Houston, Houston, TX, September 8, 2014

"*Use of EHRs for Performance Monitoring and Quality Improvements: Data Quality, Data Interoperability, and eMeasures,*" Research Seminar, School of Public Health and Military Preventive Medicine, The Fourth Military Medical University, Xi'an, China, June 16, 2014

"*Computational Ethnography: Automated and Unobtrusive Means for Collecting Data in situ for Human–Computer Interaction Studies,*" Research Seminar, Healthcare Informatics Engineering Research Center, College of Biomedical Engineering and Instrument Science, Zhejiang University, Hangzhou, China, June 4, 2014

"*Computational Ethnography: Automated and Unobtrusive Means for Collecting Data in situ for Human–Computer Interaction Studies,*" Seminars on Current Trends of Biomedical Informatics, Division of Biomedical Informatics, School of Medicine, University of California, San Diego, La Jolla, CA, May 16, 2014

"*Collaborative Search in Electronic Health Records,*" Public Health Seminar, Program in Public Health, University of California, Irvine, Irvine, CA, May 12, 2014

"*Popular Apps for Preventive Medicine Physicians—Adoption and Effectiveness of Medical Apps: Current Research Evidence,*" The American College of Preventive Medicine 2014 Annual Meeting (ACPM '14), New Orleans, LA, February 20, 2014

"*Developing an Intelligent and Socially Oriented Search Query Recommendation Service for Facilitating Information Retrieval in Electronic Health Records,*" National Center for Integrative Biomedical Informatics (NCIBI) Tools & Technology Seminars, Ann Arbor, MI, October 3, 2013

"*A Technology-Enabled Information and Decision-Support Infrastructure of Managing Complex Chronic*

Diseases in China," Research Seminar, Wuhou District Health Bureau, Chengdu, China, July 17, 2013

"*Accelerating Health IT Adoption in the U.S.: Opportunities and Challenges*," China Europe International Business School, Shanghai, China, January 31, 2013

"*Modeling the Impact of Health IT on Clinical Workflow*," Research Seminar, IBM Research China, Beijing, China, November 22, 2012

"*Accelerating the Adoption of Health IT and Health Information Exchange*," Research Seminar, School of Medicine, Shanghai Jiaotong University, Shanghai, China, November 20, 2012

"*Modeling the Impact of Health IT on Clinical Workflow*," Stanford Center for Biomedical Informatics Research Colloquium, School of Medicine, Stanford University, Stanford, CA, October 25, 2012

"*Developing an Intelligent and Socially Oriented Search Query Recommendation Service for Facilitating Information Retrieval in Electronic Health Records*," with David Hanauer, Qiaozhu Mei, Lei Yang, Danny Wu, & Katherine Murkowski, Grantee Meeting on Computational Thinking to Support Clinicians and Biomedical Scientists, National Library of Medicine (NLM), Bethesda, MD, June 19, 2012

"*Issues and Approaches for using Time and Motion Methods to Study Workflow in Health IT*," with David Hanauer & Michael Guo, National Center for Integrative Biomedical Informatics (NCIBI) Tools & Technology Seminars, Ann Arbor, MI, November 10, 2011

"*Developing an Intelligent and Socially Oriented Search Query Recommendation Service for Facilitating Information Retrieval in Electronic Health Records*," with Qiaozhu Mei, David Hanauer, William Wilcox, Danny Wu, & Lei Yang, Grantee Meeting on Computational Thinking to Support Clinicians and Biomedical Scientists, National Library of Medicine (NLM), Bethesda, MD, June 22, 2011

"*Health Informatics Research in the U.S.*," Research Seminar, Healthcare Informatics Engineering Research Center, College of Biomedical Engineering and Instrument Science, Zhejiang University, Hangzhou, China, June 19, 2011

"*Biomedical Informatics Supporting International Collaboration: Stories from University of Michigan Health System and Peking University Health Science Center Joint Institute for Translational and Clinical Research*," The 2011 International Biomedical Informatics Forum, Medical Informatics Center, Peking University Health Science Center, Beijing, China, June 7, 2011

"*Assessing the Effect of a Handheld Decision-Support Device for Reducing Medication Errors*," with Todd Gage, Product Line Review Meeting, Telemedicine & Advanced Technology Research Center (TATRC), Department of Defense, Falls Church, VA, March 15, 2011

"*Interface Flow and Cognitive Consistency*," Research Seminar, Chicago Health Information Technology Regional Extension Center (CHITREC), Chicago, IL, October 6, 2010

"*Research and Practice in Health Informatics/Health IT: Opportunities and Challenges*," Research Seminar on Bioinformatics & Proteomics/Genomics, College of Medicine and Life Sciences, University of Toledo, Toledo, OH, August 26, 2009

"*User Reaction to Technology Innovations in Healthcare: A Multi-Site Multi-Approach Study*," Information Systems Research Seminar, Krannert School of Management, Purdue University, West Lafayette, IN, April 4, 2008

"*Clinical Reminder System (CRS) and User Interface Optimization*," National Center for Integrative Biomedical Informatics (NCIBI) Tools & Technology Seminars, Ann Arbor, MI, April 26, 2007

"*Decision Making with Clinical Information Systems*," The Institute for Operation Research and the Management Sciences 2004 Annual Meeting (INFORMS '04), Denver, CO, October 27, 2004

Tutorials & Instructional Workshops

"*Analysis of Human Interactive Behavior for Improving Patient Safety and Reducing Clinician Burnout in the AI Era*," with Thomas Kannampallil, Aaron Zachary Hettinger, & Vimla Patel, The American Medical Informatics Association 2025 Annual Symposium (AMIA '25), Atalanta, GA, November 16, 2025

"*Analysis of Human Interactive Behavior for Improving Patient Safety and Reducing Clinician Burnout in the AI Era*," with Thomas Kannampallil, Aaron Zachary Hettinger, & Vimla Patel, The American Medical Informatics Association 2024 Annual Symposium (AMIA '24), San Francisco, CA, November 9, 2024

"*Virtual Workshop: UCI's Health Data Research Resources*," with Yi-Cheng (Andrea) Hwang, University of California, Irvine, October 18, 2024

"*Virtual Workshop on TriNetX: A Global Patient Cohort Discovery Tool*," University of California, Irvine, October 20, 2023

"*Virtual Workshop on UCI Health Research Data Resources*," University of California, Irvine, October 13, 2023

"*Virtual Workshop on TriNetX: A Global Patient Cohort Discovery Tool*," University of California, Irvine, January 27, 2023

"*Analysis of Human Interactive Behavior for Improving Patient Safety and Clinician Burnout*," with Thomas Kannampallil, Aaron Zachary Hettinger, & Vimla Patel, The American Medical Informatics Association 2022 Annual Symposium (AMIA '22), Washington DC, November 5, 2022

"*Virtual Workshop on UCI Health Research Data Resources*," University of California, Irvine, September 23, 2022

"*Analysis of Human Interactive Behavior for Improving Health IT Usability and Clinical Workflow*," with Thomas Kannampallil, Aaron Zachary Hettinger, & Vimla Patel, The American Medical Informatics Association 2021 Annual Symposium (AMIA '21), San Diego, CA, October 30, 2021

"*Virtual Workshop on How to Request Research Data from UCI Health*," with Mary Alexander, Yi-Cheng (Andrea) Hwang, & Joseph Wu, University of California, Irvine, September 24, 2021

"*Virtual Workshop on the National COVID Cohort Collaborative (N3C) of the NIH National Center for Advancing Translational Sciences (NCATS)*," University of California, Irvine, January 15, 2021

"*Analysis of Human Interactive Behavior for Improving Health IT Usability and Clinical Workflow*," with Thomas Kannampallil, Aaron Zachary Hettinger, & Vimla Patel, The American Medical Informatics Association 2020 Annual Symposium (AMIA '20), Washington DC, November 14, 2020

"*Virtual Workshop on Accessing and Using the NIH All of Us Research Data*," with Hoda Anton-Culver, Erin Saltmarsh, Argyrios Ziogas, & Steven Hiek, University of California, Irvine, August 7, 2020

"*Virtual Workshop on How to Access and Use the UC COVID Research Data Set (UC CORDS)*," University of California, Irvine, June 15, 2020

"*Virtual Workshop on How to Access UCI's De-Identified Electronic Health Records Data for Research*," University of California, Irvine, April 9, 2020

"*Analysis of Human Interactive Behavior for Improving Health IT Usability and Clinical Workflow*," with Thomas Kannampallil, Jan Horsky, & Vimla Patel, The American Medical Informatics Association 2019 Annual Symposium (AMIA '19), Washington DC, November 16, 2019

"*Analysis of Human Interactive Behavior for Improving Health IT Usability and Clinical Workflow*," with Thomas Kannampallil & Vimla Patel, The American Medical Informatics Association 2018 Annual Symposium (AMIA '18), Washington DC, November 4, 2018

"*Analysis of Human Interactive Behavior for Improving Health IT Usability and Minimizing Patient Safety Risks*," with Thomas Kannampallil & Vimla Patel, The American Medical Informatics Association 2017 Annual Symposium (AMIA '17), Washington DC, November 4, 2017

"*Analysis of Human Interactive Behavior for Improving Health IT Usability and Minimizing Patient Safety Risks*," with Thomas Kannampallil & Vimla Patel, The American Medical Informatics Association 2016 Annual Symposium (AMIA '16), Chicago, IL, November 12, 2016

"*Analysis of Human Interaction Behavior for Supporting Health IT Design*," with Kannampallil TG & Patel VL, The American Medical Informatics Association 2012 Annual Symposium (AMIA '12), Chicago, IL, November 3, 2012

Panel Presentations

Panelist, "*iAgree: A Decentralized Consent Management Platform for Patient-Controlled Sharing of Electronic Health Records Data for Research*," The American Medical Informatics Association 2025 Annual Symposium (AMIA '25), Atalanta, GA, November 17, 2025

Panelist, "*The Role of AI in Transforming Healthcare*," UC Health Conference, From Insight to Impact: Accelerating Healthcare Excellence, Irvine, CA, April 17, 2024

Panelist, "*Computational Health*," The Noyce Initiative Research Showcase, University of California, Irvine, Irvine, CA, November 30, 2022

Panelist, "*Public Health Informatics and Technology Workforce Development Program: Overview and Opportunities*," The Commission on Accreditation for Health Informatics and Information Management (CAHIIM) Fall Festival: Summit on Higher Education, September 29, 2022

Panelist, "*A Smarter Future for Pediatric Healthcare*," Institute for Future Health, University of California, Irvine, Irvine, CA, September 19, 2022

Panelist, "*Growing the Public Health Informatics and Technology Workforce*," The 2022 Office of the National Coordinator for Health Information Technology (ONC) Virtual Tech Forum, September 9, 2022

Panelist, "*Artificial Intelligence and Big Data*," The 2019 Annual Symposium of the Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), Beijing, China, October 31, 2019

Panelist, "*Clinical Workflow: What's the Fuss about?*" The 2019 World Congress on Health and Biomedical Informatics (MedInfo '19), Lyon, France, August 29, 2019

Panelist, "*A Spoonful of Structure Helps the Workload Go Down: Modeling Clinical Cognition in Inpatient Documentation Tools*," The American Medical Informatics Association 2017 Annual Symposium (AMIA '17), Washington DC, November 6, 2017

Panelist, "*Clinical Natural Language Processing Workforce of the Future*," The American Medical Informatics Association (AMIA) 2017 InSpire Academic Forum Conference, La Jolla, CA, June 7, 2017

Panelist, "*Using Big Data to Improve Patient Outcomes & Reimbursement*," The OCTANe Medical Device & Investor Forum, Irvine, CA, October 27, 2016

Panelist, "*Life Sciences Joint Panel*," Research Seminar, Undergraduate Research Opportunity (UROP) Program, University of Michigan, Ann Arbor, MI, March 24, 2015

Panelist, "*Research Scholars Health Sciences Career Panel*," Research Seminar, Undergraduate Research Opportunity (UROP) Program, University of Michigan, Ann Arbor, MI, March 24, 2015

Panelist, "*Preparing for Informatics Careers and Trends in the Age of Meaningful Use*," The American Medical Informatics Association 2013 Annual Symposium (AMIA '13), Washington DC, November 19, 2013

Moderator, "*Challenges and Opportunities in Consumer Health Informatics for Older Adults: Interdisciplinary Viewpoints*," The American Medical Informatics Association 2012 Annual Symposium (AMIA '12), Chicago, IL, November 6, 2012

Moderator, "*Opportunities and Challenges in Designing Interactive Systems for Patient–Provider Communication*," The 2012 Workshop on Interactive Systems in Healthcare (WISH '12), Chicago, IL, November 3, 2012

Panelist, "*21st Century Health Care Management Education: Confronting Challenges for Innovation with a Modern Curriculum*," Harvard Business School, Boston, MA, October 4–5, 2012

Panelist, "*Health Informatics Research at the Team Level*," The 2012 Annual Healthcare Organizational Research Association (HORA) Conference, Ann Arbor, MI, June 8, 2012

Panelist, Workshop on Securing Information Technology in Healthcare: Part II, Institute for Security, Technology, and Society (ISTS), Dartmouth College, Hanover, NH, May 16, 2012

Moderator, "*ONC Regional Extension Centers: Experience after Six Months*," The American Medical Informatics Association 2010 Annual Symposium (AMIA '10), Washington DC, November 15, 2010

Panelist, Workshop on Health Care IT Usability: Strategy, Research, and Implementation, Office of the National Coordinator for Health Information Technology (ONC) and National Institute of Standards and Technology (NIST), Gaithersburg, MD, July 13, 2010

Moderator, "*Health Information Technology*," FutureTech Conference, Stephen M. Ross School of Business, University of Michigan, Ann Arbor, MI, December 4, 2009

Panelist, Workshop on Electronic Health Record Usability: Interface Design Considerations, Agency for Healthcare Research and Quality (AHRQ), Rockville, MD, February 27, 2009

Panelist, "*The Role of HCI in Biomedical Informatics: Untapped Opportunities for Broad Social Impact*," The 2009 Human Computer Interaction Consortium (HCIC '09), Winter Park, CO, February 7, 2009

Internal Presentations

"*UCI's Health Data Research Resources*," Physician Scientist Collective Distinguished Speaker Series, School of Medicine Office of Research, University of California, Irvine, Irvine, CA, January 23, 2026

"*UCI's Health Data Research Resources*," Department of Epidemiology and Biostatistics Seminar Series, Joe C. Wen School of Population & Public Health, Susan & Henry Samueli College of Health Sciences, University of California, Irvine, Irvine, CA, October 22, 2025

"*Research Resources*," UCI Resident Lecture, Department of Dermatology, School of Medicine, Susan & Henry Samueli College of Health Sciences, University of California, Irvine, Irvine, CA, January 24, 2024

"*UCI Health Research Data Resources*," Department of Surgery, School of Medicine, Susan & Henry Samueli College of Health Sciences, University of California, Irvine, Irvine, CA, October 29, 2022

"*UCI Health Research Data Resources*," School of Pharmacy and Pharmaceutical Sciences, Susan & Henry Samueli College of Health Sciences, University of California, Irvine, Irvine, CA, September 29, 2022

"*Clinical Informatics*," The Technology in Medicine Symposium, School of Medicine, Susan & Henry Samueli College of Health Sciences, University of California, Irvine, Irvine, CA, September 28, 2022

"*UCI Health Data Resources*," Department of Ophthalmology, School of Medicine, Susan & Henry Samueli College of Health Sciences, University of California, Irvine, Irvine, CA, September 21, 2020

"*UCI Health Data Resources*," Department of Clinical Pharmacy Practice, School of Pharmacy and Pharmaceutical Sciences, Susan & Henry Samueli College of Health Sciences, University of California, Irvine, Irvine, CA, September 4, 2020

"*Research Trends in Biomedical and Health Informatics*," Seminar, Summer Undergraduate Research Fellowship in the Internet of Things (SURF-IoT), University of California, Irvine, Irvine, CA, August 18, 2020

"*Introduction to Medical/Health Informatics*," Seminar, International Summer Undergraduate Research Fellowship (I-SURF), University of California, Irvine, Irvine, CA, August 21, 2019

"*Data Security and Privacy Protection*," Global Health Research Lectures Series, School of Medicine, University of California, Irvine, Irvine, CA, May 7, 2018

"*Adoption and Effectiveness of Medical Apps: Current Research Evidence*," HackUCI 2017, Irvine, CA, January 14, 2017

"*Informatics Research on Usability and Workflow Impacts of Health IT*," with Charles Friedman & Sue Schade, Presentation to the Medical Affairs Advisory Committee (MAAC), University of Michigan Health System, Ann Arbor, MI, April 8, 2015

"*Health Informatics for Computerized Clinical Decision Support*," Conference on Health Management: Connecting China to the U.S., School of Kinesiology, University of Michigan, Ann Arbor, MI, September 22, 2014

"*Electronic Health Records for Performance Monitoring and Patient Outcomes Improvement: Data Quality, Data Interoperability, and eMeasures*," Special Research Seminar, Kidney Epidemiology and Cost Center (KECC), University of Michigan, Ann Arbor, MI, May 22, 2014

"*An EHR Companion Tool for Integrating Clinical Research into Patient Care Routines*," The Ignition Chamber, Office of Technology Transfer, University of Michigan, Ann Arbor, MI, April 2, 2014

"*Studying the Impacts of Health IT Adoption on Clinical Workflow*," Research Seminar, Health Informatics Research Interest Group (HI-RIG), University of Michigan, Ann Arbor, MI, February 3,

2014

"*A Technology-Enabled Information and Decision-Support Infrastructure of Managing Complex Chronic Diseases in China*," The 2012 Annual Symposium of the Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), Ann Arbor, MI, November 29, 2012

"*Health Informatics: Opportunities and Challenges*," Presentation to the Michigan Cardiovascular Outcomes Research and Reporting Program (MCORRP), Ann Arbor, MI, June 22, 2012

"*Health Informatics: Bridging Clinical Applications with Consumer-Centered Applications*," Research Seminar, Center for Health Communications Research (CHCR), University of Michigan, Ann Arbor, MI, July 15, 2010

"*Advances in Health Informatics*," Global Health Science and Engineering Seminar, College of Engineering, University of Michigan, Ann Arbor, MI, March 16, 2010

"*Health Informatics: Opportunities and Challenges*," Special Research Seminar, Medical School Information Technology (MCIT), University of Michigan, Ann Arbor, MI, February 24, 2010

"*Recent Topics in Biomedical Informatics Research*," Seminar on Bioinformatics, Undergraduate Research Opportunity Program (UROP), University of Michigan, Ann Arbor, MI, July 9, 2008

"*User Reaction to Technology Innovations in Healthcare: A Multi-Site Multi-Approach Study*," Interdisciplinary Committee on Organizational Studies (ICOS) Lectures, University of Michigan, Ann Arbor, MI, April 11, 2008

"*A Partnership for Clinician EHR Use and Quality of Care*," with Joanne Pohl, Research Seminar, School of Nursing, University of Michigan, Ann Arbor, MI, April 2, 2008

"*Social Contagion and IT Adoption of Healthcare Professionals*," Networks Seminar, School of Information, University of Michigan, Ann Arbor, MI, March 15, 2007

"*Understanding Technology Adoption in Clinical Care: Clinician Adoption Behavior of a Point-of-Care Reminder System*," Research Seminar, Health Informatics Research Organization (HIRO), University of Michigan, Ann Arbor, MI, December 13, 2006

"*Clinical Reminder System (CRS) and User Interface Optimization*," Research Seminar, Health Informatics Research Organization (HIRO), University of Michigan, Ann Arbor, MI, November 29, 2006

Professional Activities

Advisory Boards & Working Groups

- Member, Clinical Data Research Governance and Operations Council External Advisory Board, University of Illinois (UI) Chicago and UI Health, 2025–present
- Member, Data Stewardship Working Group, Research and Development of Vaccines and Monoclonal Antibodies for Pandemic Preparedness (ReVAMPP) Network, National Institute of Allergy and Infectious Diseases (NIAID), 2024–present
- Member, EHR Safety Technical Advisory Panel, The Joint Commission, 2022
- Member, Expert Stakeholder Panel, VA Coordinating Hub to Promote Research Optimizing Veteran-centric EHR Networks (PROVEN), Veterans Affairs, 2021–2023
- Member, Expert Advisory Committee, Using Electronic Health Record Audit Logs to Capture Contextual Contributors to Diagnostic Performance (Julia Adler-Milstein, PI), Gordon and

Betty Moore Foundation, 2019

- Member, Steering Committee, Applied Digital Health Initiative, University of California, Irvine, 2019

- Member, Advisory Board, Opioid Hackathon, University of California Institute for Prediction Technology, 2019

- Scientific Advisor, Sync for Science (S4S), 2018–2020

- Member, Committee of Visitors, Directorate for Social, Behavioral & Economic Sciences (SBE), National Science Foundation (NSF), 2016

Professional Society

- Member, Elections and Nominations Committee, American College of Medical Informatics (ACMI), 2024–2025

- Member, Awards Committee, American Medical Informatics Association (AMIA), 2020–2021

- **Chair, Clinical Information Systems Working Group, American Medical Informatics Association (AMIA), 2019–2020**

- Chair-Elect, Evaluation Working Group, American Medical Informatics Association (AMIA), 2019

- Member, Organizing Committee, The US–Denmark Workshop on Datafication of Healthcare: Transforming Practices, Roles, and Knowledge, 2017

- Institutional Representative, American Medical Informatics Association (AMIA) Academic Forum, University of California, Irvine, 2016–2017

- Institutional Representative, American Medical Informatics Association (AMIA) Academic Forum, University of Michigan, 2014–2015

- **Chair, Usability Track, The 2014 i2b2/UTHealth Shared-Tasks and Workshop on Challenges in Natural Language Processing for Clinical Data, 2014**

- Member, The SMART Collaborative, Office of the National Coordinator for Health Information Technology (ONC), 2013–2014

- Member, The Structured Data Capture Initiative, Office of the National Coordinator for Health Information Technology (ONC), National Library of Medicine (NLM), and Agency for Healthcare Research and Quality (AHRQ), 2013–2014

- Organizing Committee, The 2013 Workshop on Interactive Systems in Healthcare: Bridging Communities (WISH '13), 2013

- Member, American Medical Informatics Association (AMIA) Education Committee, 2012–2014

- **Chair, Organizational and Social Issues Working Group, International Medical Informatics Association (IMIA), 2011–2013**

- Faculty Mentor, American Medical Informatics Association (AMIA) Mentorship Program, 2010–2017

Journal Editing

- Co-Editor, Special Focus Issue on Clinician Burnout: Informatics Perspectives, Journal of the American Medical Informatics Association (JAMIA), 2020

- **Editorial Board, Journal of Biomedical Informatics (JBI), 2018–present**

- Editorial Board, Yearbook of Medical Informatics 2016, International Medical Informatics Association (IMIA), 2016

- Editorial Board, The China Health Review, 2015–2019

- Editorial Review Board, International Journal of Healthcare Information Systems and Informatics (IJHISI), 2007–2015

Conference Committees

- Member, Advisory Planning Committee, 2026 Center for Data-driven Insights and Innovation (CDI2) Conference, University of California Health, 2025–present
- Member, Scientific Planning Committee, The 2024 University of California Health Systemwide Conference, 2023–2024
- **Co-Chair, The 2020 American College of Medical Informatics (ACMI) Winter Symposium, 2019–2020**
- Member, Scientific Program Committee, The American Medical Informatics Association 2019 Annual Symposium (AMIA '19), 2018–2019
- Co-Chair, Minitrack on Health Technologies that Interface Patients and Providers, The 2018 Hawaii International Conference on System Sciences (HICSS–51), 2018
- **Co-Chair, Program Committee, The 2016 IEEE International Conference on Healthcare Informatics (ICHI '16), 2015–2016**
- Member, Steering Committee, Workshop on Interactive Systems in Healthcare (WISH), 2014, 2016–2019
- Poster Judge, The American Medical Informatics Association Annual Symposium, 2014, 2016–2018
- Associate Editor, Healthcare Track, The 2014 International Conference on Information Systems (ICIS '14), 2014
- Judge, The 2013 Health Informatics Society (HISo) Case Competition, University of Michigan, Ann Arbor, MI, 2013
- Member, Program Committee, The 2013 International Health Informatics Conference (IHIC '13), 2013
- Member, Program Committee, The 2013 IEEE International Conference on Healthcare Informatics (ICHI '13), 2013
- Associate Editor, IT for Health Care Management Track, The 2012 International Conference on Information Systems (ICIS '12), 2012
- Member, Program Committee, The 2010 ACM International Conference on Health Informatics (IHI '10), 2010
- Session Chair, Human-Centered Design of Health Informatics Systems, The 2010 ACM International Conference on Health Informatics (IHI '10), 2010
- Member, Program Committee, The 2008 IEEE International Workshop on Biomedical and Health Informatics, 2008
- Member, Program Committee, The 2007 IEEE International Workshop on Knowledge Discovery and Management, 2007

Volunteer

- Technology Advisor, Floating Doctors (an all-volunteer non-profit medical relief team dedicated to reducing the present and future burden of disease in the developing world), 2012
- Technology Advisor, The Project of Raxa Jan Swasthya Sahyog (JSS) EMR (an open source information management system to be implemented at a healthcare NGO in a rural community in India), 2011–2012

Paper Review

ACM Conference on Human Factors in Computing Systems (CHI); ACM International Conference on Health Informatics (IHI); ACM Transactions on the Web; Advances in Life Science and Medicine; American Journal of Managed Care; American Journal of Preventive Medicine; American Medical Information Association Annual Symposium (AMIA); Applied Clinical Informatics (ACI); BioMed Research International; British Medical Journal (BMJ) Quality & Safety; British Medical Journal (BMJ); Diabetes Research and Clinical Practice; Electronic Commerce Research and Applications; Entropy, Multidisciplinary Digital Publishing Institute; Expert Systems With Applications; Frontiers in Public Health, section Disaster and Emergency Medicine; Health Care Management Review; Health Expectations; Health Informatics Journal; Health Policy and Technology; IBM Journal of Research and Development; IEEE Access; IEEE Journal of Biomedical and Health Informatics; Information & Management; Information Systems Research (ISR); International Conference on Information Systems (ICIS); International Conference on Intelligent Biology and Medicine (ICIBM); International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth); International Journal of Healthcare Information Systems and Informatics; International Journal of Medical Informatics (IJMI) Special Issue on Supporting Collaboration in Healthcare Settings: The Role of Informatics; International Journal of Medical Informatics (IJMI); Jones & Bartlett Learning; Journal of Biomedical Informatics (JBI) Special Issue on Cognitive Informatics Methods for Interactive Clinical Systems; Journal of Biomedical Informatics (JBI); Journal of Biomedical Science (BMC) Health Services Research; Journal of Biomedical Science (BMC) Medical Education; Journal of Biomedical Science (BMC) Medical Informatics and Decision Making; Journal of Biomedical Science (BMC) Research Notes; Journal of Empirical Legal Studies; Journal of Environmental Research and Public Health; Journal of Health Care for the Poor and Underserved; Journal of Healthcare Engineering; Journal of Healthcare Management; Journal of Independent Studies and Research – Computing; Journal of Information Technology & Software Engineering; Journal of Intelligent Systems; Journal of Law, Medicine & Ethics; Journal of Medical Internet Research (JMIR); Journal of Medical Systems; Journal of Pain Research; Journal of Software: Evolution and Process; Journal of the American Medical Informatics Association (JAMIA) Special Issue on Interactive Systems for Patient-Centered Care to Enhance Patient Engagement; Journal of the American Medical Informatics Association (JAMIA); Journal of the American Society for Information Science and Technology (JASIST); Management Science; Medical Care Research and Review; Medical Care; Methods of Information in Medicine; PLOS ONE; Springer-Verlag London Ltd.; The Scientific Pages of Psychiatry; Workshop on Interactive Systems in Healthcare (WISH); Yearbook of Medical Informatics, International Medical Informatics Association (IMIA)

Study Section & Grant Review

- The BioNexus KC and Blue KC Transforming KC: Health Outcomes Research Grant Program 2025, Health Outcomes Research Panel, August 2025

- The Agency for Science, Technology and Research, Singapore (A*STAR) and India's Department of Science and Technology (DST) Bilateral Grant Call, August 2025

- 2023–24 Computer & Information Sciences Review Panel, Louisiana Board of Regents Support Fund (BoRSF) Research Competitiveness Subprogram, February 2024

- Ad Hoc Reviewer, KL-2 Program, Institute for Clinical and Translational Science (ICTS), University of California, Irvine, July 2023

- 2022–23 Computer & Information Sciences Review Panel, Louisiana Board of Regents Support Fund (BoRSF) Research Competitiveness Subprogram, February 2023

- Ad Hoc Reviewer, Pilot Award Program, Center for Clinical and Translational Science, The Ohio State University, March 2022

- **Study Section Standing Member, Healthcare Information Technology Research (HITR), Agency for Healthcare Research and Quality (AHRQ), October 2019– October 2021**

- Ad Hoc Reviewer, Healthcare Information Technology Research (HITR), Agency for Healthcare Research and Quality (AHRQ), May 2019

- Ad Hoc Reviewer, Special Emphasis Panel ZRG1-HDM-Z (52), NIH, February 2018

- Ad Hoc Reviewer, Biomedical and Health Informatics Pilot Funding Program, Institute for Clinical and Translational Science (ICTS), University of California, Irvine, January 2018

- Ad Hoc Reviewer, Biomedical and Health Informatics Pilot Funding Program, Institute for Clinical and Translational Science (ICTS), University of California, Irvine, November 2017

- Ad Hoc Reviewer, Pilot Award Program, Translational Research Institute, University of Arkansas for Medical Sciences, April 2017

- Ad Hoc Reviewer, Business Innovation Program Development Loan, Maine Technology Institute, April 2016

- Ad Hoc Reviewer, Biomedical and Health Informatics Pilot Funding Program, Institute for Clinical and Translational Science (ICTS), University of California, Irvine, April 2016

- Ad Hoc Reviewer, HSR-3/8, Health Services Research and Development (HSR&D), Department of Veterans Affairs, March 2016

- Ad Hoc Reviewer, HSR-3/8, Health Services Research and Development (HSR&D), Department of Veterans Affairs, August 2015

- Ad Hoc Reviewer, Division of Humanities and Social Sciences, Swiss National Science Foundation, Switzerland, August 2014

- Ad Hoc Reviewer, Pilot Funding Program, Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), August 2014

- Ad Hoc Reviewer, Global Public Health Internship Funding Program, Office of Global Public Health, School of Public Health, University of Michigan, March 2014

- Ad Hoc Reviewer, MCNerney Apps, Department of Health Management and Policy, School of Public Health, University of Michigan, January 2014

- Ad Hoc Reviewer, Business Innovation Program Development Loan, Maine Technology Institute, August 2013

- Ad Hoc Reviewer, Health Care Technology and Decision Science (HTDS), Agency for Healthcare Research and Quality (AHRQ), June 2013

- Ad Hoc Reviewer, Pilot Funding Program, Michigan Institute for Clinical and Health Research (MICHR), University of Michigan, April 2013

- Ad Hoc Reviewer, Quod Erat Demonstrandum Program, University City Science Center, November 2012

- Ad Hoc Reviewer, Novel Presentation of Health Related Data (NPHRD), U.S. Army Medical Research Acquisition Activity (USAMRAA), July 2012

- Ad Hoc Reviewer, HSR-3/8, Health Services Research and Development (HSR&D), Department of Veterans Affairs, March 2012

- Ad Hoc Reviewer, University of Michigan Center for Health Communications Research, University of Michigan, September 2010

- Ad Hoc Reviewer, Military Medical Research and Development, U.S. Army Medical Research Acquisition Activity (USAMRAA), July 2010

- Ad Hoc Reviewer, Research Excellence Program, Ontario Ministry of Research and Innovation, Canada, November 2009
- Ad Hoc Reviewer, Maryland Industrial Partnerships Program, June 2009
- Ad Hoc Reviewer, Medical Innovation Center, University of Michigan, April 2009

Program and Accreditation Review

- Ad Hoc Reviewer, UCLA Proposal for a Master of Data Science in Health (MDSH) Self-Supporting Graduate Professional Degree Program, Coordinating Committee on Graduate Affairs (CCGA), Academic Senate, University of California, November 2022
- Ad Hoc Reviewer, UCSD Proposal for a Self-Supporting Professional Graduate Degree Program in Health Informatics for the Master of Science Degree, Coordinating Committee on Graduate Affairs (CCGA), Academic Senate, University of California, December 2016
- Ad Hoc Reviewer, UCLA Proposal for a Program of Graduate Studies in Biomedical Informatics for the PhD and MS Degrees, Coordinating Committee on Graduate Affairs (CCGA), Academic Senate, University of California, December 2015
- Ad Hoc Reviewer, National Commission for Academic Accreditation & Assessment, Umm Al Qura University, Mecca, Kingdom of Saudi Arabia, February 2013
- Ad Hoc Reviewer, Proposal for a Master of Science in Medical Informatics, Michigan Technological University, Presidents Council, State Colleges and Universities of Michigan, December 2011

Other Review

- Ad Hoc Reviewer, Final Performance Review, Pennsylvania Department of Health 2014 Non-Formula Final Grants (Big Data), June 2020
- Ad Hoc Reviewer, Final Performance Review, Commonwealth Universal Research Enhancement Program (CURE), Pennsylvania Department of Health, 2017–2018 Cycle A, November 2017
- Ad Hoc Reviewer, Final Performance Review, Commonwealth Universal Research Enhancement Program (CURE), Pennsylvania Department of Health, 2015–2016 Cycle A, March 2016
- Draft Report Reviewer, Office of Policy Development & Research, Department of Housing and Urban Development (HUD), May 2015

University & School Service

Departmental committees not listed.

- Member, Systemwide UC Health Data Warehouse (UCHDW) Research Collaborative, Center for Data-driven Insights and Innovation (CDI2), University of California Health, 2025–present
- Member, Strategic Plan Update Committee, Center for Data-driven Insights and Innovation (CDI2), University of California Health, 2025
- Member, Research Advisory Council, UCI Health, University of California, Irvine, 2024–present
- Member, Search Committee for Director of Institute for Precision Health, University of California, Irvine, 2024–2025
- UCI Representative, UC MODERN Initiative, University of California Health, 2022–present
- Member, Systemwide Real World Evidence Collaborative, Center for Data-driven Insights and Innovation (CDI2), University of California Health, 2022–present
- Member, Faculty Advisory Committee, Certificate Program in Healthcare and Public Health Analytics, Division of Continuing Education, University of California, Irvine, 2022–present

- Chair, Subcommittee on Data Security/Access, DISCOVER Genomics/Genetics Committee, School of Medicine, University of California, Irvine, 2022–2025

- Member, Hellman Advisory Panel, Society of Hellman Fellows Program, University of California, Irvine, 2022

- Member, Research Governance & IT Committee, UCI Health, University of California, Irvine, 2021–present

- Member, Faculty Search Committee, Susan Samueli Integrative Health Institute, University of California, Irvine, 2021–2022

- Member, Faculty Search Committee, Department of Pathology & Laboratory Medicine, School of Medicine, University of California, Irvine, 2021–2022

- Voting Member, Health Data Governance Committee (HDGC), UCI Health, University of California, Irvine, 2020–present

- Chair, Campuswide Honors Collegium Board, Academic Senate, University of California, Irvine, 2020–2021

- Co-Chair, Health Informatics Platform Strategic Planning Committee, Office of Research and UCI Health Affairs, University of California, Irvine, 2019

- Member, Steering Committee, Clinical Informatics Fellowship Program, UCI Health, University of California, Irvine, 2018–present

- Member, Faculty Advisory Committee, Certificate Program in Healthcare Analytics, Division of Continuing Education, University of California, Irvine, 2018–2022

- Member, Campuswide Honors Collegium Board, Academic Senate, University of California, Irvine, 2018–2020

- Member, Steering Committee, Institute for Clinical and Translational Science (ICTS), University of California, Irvine, 2016–present

- Member, Faculty Search Committee, Sue & Bill Gross School of Nursing, University of California, Irvine, 2016–2019

- Member, Executive Committee, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2016–2017

- Member, Health Research Strategic Plan Development Committee, Susan & Henry Samueli College of Health Sciences and UCI Health, University of California, Irvine, 2016

- Member, Big Data Task Force, School of Public Health, University of Michigan, 2015

- Member, Curriculum Committee, Master of Science in Clinical Research Program, Michigan Institute for Clinical and Health Research (MICHR) & Department of Epidemiology, School of Public Health, University of Michigan, 2015

- Member, Committee of Healthcare IT Innovation Ideation Session, Fast Forward Medical Innovation, Office of Research & Office of Technology Transfer, University of Michigan Medical School, 2014–2015

- Member, Research Council, School of Public Health, University of Michigan, MI, 2013–2015

- Faculty Advisor, HEZUO – Michigan's Public Health China Interest Collaboration Constitution, 2013–2015

- Member, Launch Planning Committee, Institute for Healthcare Policy and Innovation (IHPI), University of Michigan, 2012

- Member, Executive Committee, Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), 2011–2015

- Faculty Committee, Health Informatics Program, Schools of Information and Public Health, University of Michigan, 2011, 2013–2015

- Member, Faculty Search Committee, Department of Computational Medicine and Bioinformatics, University of Michigan Medical School, 2011–2012

- Faculty Advisor, Health Informatics Society (HISo), University of Michigan, 2011–2012

- Member, Curriculum Committee, Joint Masters Degree and Graduate Certificate Programs in Health Informatics, Schools of Information and Public Health, University of Michigan, 2011

- Member, Planning Committee, Joint Masters Degree and Graduate Certificate Programs in Health Informatics, Schools of Information and Public Health, University of Michigan, 2009–2012

- Research Coordinator, Nursing Informatics Advisory Committee, University of Michigan Health System, 2008–2011

- Member, Advisory Board, Information and Communication Services, School of Public Health, University of Michigan, 2008–2009

- Member, Inpatient Nursing/Respiratory Therapy Documentation Project Planning Committee, University of Michigan Health System, 2008–2009

Mentoring

Current

- Seungjun Kim, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2025–present

- Yiliang Zhou, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2024–present

- Di Hu, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2023–present

- Ha Na Cho, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2023–present

- Yawen Guo, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2021–present

Past: PhD Students, Postdoctoral Fellows, Visiting Scholars, and Research Master's

- Vanessa Klotzman, Doctoral Dissertation Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2024–2025

- Lidia Flores, Doctoral Advancement Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2025

- Zhaoyuan (Nick) Su, Doctoral Dissertation Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2022–2025

- Vitica Arnold, Doctoral Comprehensive Exam Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2025

- Brian Tran, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019–2025

- Lu He, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2018–2024 (now Assistant Professor, Joseph J. Zilber College of Public Health, University of Wisconsin-Milwaukee)

- Yong Huang, Doctoral Candidacy Exam Committee (Member), Department of Computer Science, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2023

- Katie Genuario, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2021–2023

- Sharmaine Poblete, Master's Thesis Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2021–2022

- Colby Reyes, **Master's Thesis Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2020–2021

- Rui Cao, Doctoral Qualification Committee (member), Department of Computer Science, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2021

- Mayara Figueiredo, Doctoral Dissertation Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019–2021

- Joanne Ly, Doctoral Dissertation Committee (member), Department of Biomedical Engineering, Henry Samueli School of Engineering, University of California, Irvine, 2021

- Elizabeth Ankrah, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019–2020

- Eugenia Rho, Doctoral Dissertation Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019–2020

- Yao Du, Doctoral Dissertation Proposal Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019

- Liangjian Chen, Doctoral Advancement Committee (member), Department of Computer Science, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019

- Mayara Figueiredo, Doctoral Advancement Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019

- Fatema Akbar, Doctoral Advancement Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019

- Yao Li, Doctoral Dissertation Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2018–2019

- Mayara Figueiredo, Doctoral Comprehensive Examination Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2018

- Fatema Akbar, Doctoral Comprehensive Examination Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2018

- Clara Caldeira, Doctoral Dissertation Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2017–2020

- Elizabeth Eikey, **Postdoctoral Mentor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2017–2019 (to start as Assistant Professor, Department of Family Medicine and Public Health, University of California, San Diego)

- Xinning Gui, Doctoral Dissertation Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2017–2019

- Yue Wang, Doctoral Dissertation Committee (member), Department of Electrical Engineering and Computer Science, Michigan Engineering, University of Michigan, 2017–2018

- Fatema Akbar, Individual Study Mentor, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, Fall 2017 & Winter 2018

- Clara Caldeira, Doctoral Advancement Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2017

- Hyungik (Jordan) Oh, Doctoral Advancement Exam Committee (member), Department of Computer Science, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2017

- Mustafa Hussain, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2016–2021

- Keaton Cooley-Rieders (School of Medicine), Medical Student Scholar Mentor, University of California, Irvine, 2016–2020

- Mohammad Eletriby, **PhD Co-Advisor**, Department of Computer Science, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2016–2018

- Silis Jiang, Doctoral Dissertation Committee (member), Department of Biomedical Informatics, Columbia University Irving Medical Center, 2016–2017

- Xiaoyong Liu (Guangdong Polytechnic Normal University, China), Visiting Scholar Mentor, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2016–2017

- Kelly EunJung Yoon, Doctoral Prelim Committee (member), Paul Merage School of Business, University of California, Irvine, 2016

- Peng Yang (The Fourth Military Medical University, China), Visiting Scholar Mentor, Department of Health Management and Policy, School of Public Health, University of Michigan, 2015–2016

- Tera Reynolds, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2016–2021 (School of Information, University of Michigan, 2014–2016) (now Assistant Professor, Department of Information Systems, College of Engineering and Information Technology, University of Maryland, Baltimore County)

- Jia Liu, Doctoral Dissertation Committee (member), Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2014–2018

- Genna Cohen, Doctoral Dissertation Committee (member), Department of Health Management and Policy, School of Public Health, University of Michigan, 2014–2016

- Andrea Barbarin, Doctoral Prelim Committee (member), School of Information, University of Michigan, 2014

- VGVinod Vydiswaran, **Postdoctoral Co-Mentor**, School of Information, University of Michigan, 2013–2015 (now Associate Professor, Department of Learning Health Sciences, University of Michigan Medical School)

- Joseph Donohoe, Doctoral Dissertation Committee (member), Department of Computational Medicine and Bioinformatics, University of Michigan Medical School, 2013–2015

- Charles Senteio, Doctoral Dissertation Committee (member), School of Information, University of Michigan, 2013–2015

- Jianbo Lei, Doctoral Dissertation Committee (member), School of Biomedical Informatics, University of Texas Health Science Center at Houston, 2013–2014

- Elizabeth Kaziunas, Doctoral Prelim Committee (member), School of Information, University of Michigan, 2013

- Charles Senteio, Doctoral Prelim Committee (member), School of Information, University of Michigan, 2013

- Ayse Buyuktur, Doctoral Dissertation Committee (member), School of Information, University of Michigan, 2012–2015

- Bingyang Li, Doctoral Dissertation Committee (member), Department of Managerial Economics and Decision Sciences, Kellogg School of Management, Northwestern University, 2012–2014

- Jia Liu, Doctoral Prelim Committee (member), Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2012–2014

- Ching-Ping Lin, Postdoctoral Co-Mentor, Fogarty Global Health Fellowship Program, Fogarty International Center, National Institutes of Health, 2012–2014

- Ronald Piscotty, Doctoral Dissertation Committee (member), Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2012–2013

- Joseph Donohoe, Doctoral Prelim Committee (member), Department of Computational Medicine and Bioinformatics, University of Michigan Medical School, 2012

- Danny Wu, **PhD Advisor**, School of Information, University of Michigan, 2011–2016 (now Associate Professor, Department of Biomedical Informatics, University of Cincinnati College of Medicine and Cincinnati Children's Hospital Medical Center)

- Liu Yang, **PhD Advisor**, School of Information, University of Michigan, 2011–2015 (now Machine Learning Scientist at Amazon)

- Julie Hinkle, Doctoral Dissertation Committee (member), Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2010–2013

- Eric Lammers, Doctoral Dissertation Committee (member), Department of Health Management and Policy, School of Public Health, University of Michigan, 2010–2012

- Sirarat Sarntivijai, Doctoral Dissertation Committee (member), Department of Computational Medicine and Bioinformatics, University of Michigan Medical School, 2010–2012

- Jina Huh, Doctoral Dissertation Committee (member), School of Information, University of Michigan, 2010–2011

- Ronald Piscotty, Doctoral Prelim Committee (member), Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2009–2012

- Brian Hilligoss, Doctoral Dissertation Committee (member), School of Information, University of Michigan, 2009–2011

- Kevin Nam, Doctoral Dissertation Committee (member), School of Information, University of Michigan, 2009–2010

- Yi-Chin Lin, Predoctoral Advisory Committee (member), H. John Heinz III College, Carnegie Mellon University, 2008–2010

- Julie Hinkle, Doctoral Prelim Committee (member), Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2008–2010

- Hyojeong Kim, Postdoctoral Co-Mentor, Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2008–2010Tr

- Archer L. Batcheller, Doctoral Prelim Committee (member), School of Information, University of Michigan, 2008

- Yongsheng Huang, Doctoral Prelim Committee (member), Department of Computational Medicine and Bioinformatics, University of Michigan Medical School, 2008

- Rupa Patel, **Master's Thesis Committee (co-chair)**, School of Information, University of Michigan, 2007–2008

- Xiaomu Zhou, Doctoral Dissertation Committee (member), School of Information, University of Michigan, 2006–2010

- Andrew McLetchie, **Master's Thesis Committee (co-chair)**, School of Information, University of Michigan, 2006

Past: Other

- Michael Thomas, Undergraduate Honors Research Mentor, Department of Computer Science, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2024–2025

- Kaiyuan Hu, Undergraduate Honors Research Mentor, Department of Computer Science, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2022–2024

- Denise Gonzalez (Informatics), Nehal Patel (Public Health Policy), Emiliya Tabatabai (Public Health Policy), Summer Internship Preceptor, Public Health Informatics and Technology (PHIT) Program, University of California, Irvine, Summer 2024

- Ramya Mangu, Undergraduate Honors Research Mentor, Department of Computer Science, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2022–2023

- Yuyang Deng (Computer Science), Venkat Kandhipati (Computer Science and Engineering), Yaseen Khan (Computer Science), James Kwan (Computer Science), Emily Truong (Data Science and Dance), Zhuojian Wei (Data Science), Kexin Zhang (Data Science), Kevin Zhang (Data Science), Undergraduate Research Internship Preceptor, Office of Research Information, University of California, Irvine, 2022–2023

- Kabeer Bahl (Data Science), Lynn Gao (Data Science), Qian He (Data Science and Economics), Mohammad Kanawati (Data Science and Business Administration), Shreya Kini (Data Science), Alec Santiago (Data Science), Ashmita Sawhney (Data Science), Mason Sawtell (Data Science), Emily Truong (Data Science and Dance), Liya Yang (Data Science), Kevin Zhang (Data Science), Alvin Zou (Data Science and Applied and Computational Mathematics), Undergraduate Research Internship Preceptor, Office of Research Information, University of California, Irvine, 2021–2022

- Tingjue Yin (Statistics), Undergraduate Research Internship Preceptor, University of California, Irvine, Summer & Fall 2019

- YiJi Bae (Kyung Hee University, South Korea), Joohee Kwon (Kyung Hee University, South Korea), Suin Lee (Kyung Hee University, South Korea), I-SURF Summer Internship Preceptor, University of California, Irvine, Summer & Fall 2019

- Aiden Desai (Valencia High School), Changyang He (Fudan University, China), Ruining Tang (Beijing University of Posts and Telecommunications, China), Qirui Zhou (Computer Science, UCI), Summer Research Internship Preceptor, University of California, Irvine, Summer 2019

- Chaoyuan Luo (Tsinghua University, China), Summer Internship Preceptor, University of California, Irvine, Summer 2018

- Jamie Kunzelman (Harvey Mudd College), Summer Research Internship Preceptor, University of California, Irvine, Summer 2017

- Tiancheng Lin (Beijing University of Posts and Telecommunications, China), Summer Research Internship Preceptor, University of California, Irvine, Summer 2016

- Justin Park (Cornell University), Summer Internship Preceptor, University of California, Irvine, Summer 2016

- Melissa Wu (Health Informatics Program, Schools of Information and Public Health), Independent Study Mentor, University of Michigan, Fall 2015

- Nida Ali (College of Literature, Science, and the Arts), Undergraduate Directed Study Mentor, University of Michigan, Winter 2015

- Jenny Vanderlist (Health Informatics Program, Schools of Information and Public Health), Anna Vantsevich (Health Informatics Program, Schools of Information and Public Health), Independent Study Mentor, University of Michigan, Winter 2015

- Tricia O'Brien (College of Literature, Science, and the Arts), Esha Sondhi (Department of Industrial and Operational Engineering, Michigan Engineering), Undergraduate Research Mentor, Undergraduate Research Opportunity Program (UROP), University of Michigan, Fall 2014 & Winter 2015

- Zhaoxian Hu (Health Informatics Program, Schools of Information and Public Health), Nick Reid (Health Informatics Program, Schools of Information and Public Health), Gerald Shaeffer (Health Informatics Program, Schools of Information and Public Health), Independent Study Mentor, University of Michigan, Fall 2014

- Chris Liu (Health Informatics Program, Schools of Information and Public Health), Anh Truong (Health Informatics Program, Schools of Information and Public Health), Independent Study Mentor, University of Michigan, Winter 2014

- Rattima Sirihorachai (School of Nursing), Independent Study Mentor, University of Michigan, Fall 2013

- Ye Zhang (Capital Medical University, China), Yamei Ou (Tsinghua University, China), Summer Research Internship Co-Preceptor, University of Michigan, Summer 2013

- Jacob Makowski, Practicum Preceptor, School of Nursing, Duke University, Fall 2012

- Jason Harris (Stephen M. Ross School of Business), Independent Study Mentor, University of Michigan, Fall 2012

- Tim Wang (Health Informatics Program, Schools of Information and Public Health), Independent Study Mentor, University of Michigan, Fall 2012

- David Fang (University of Michigan Medical School), Medical Student Research Rotation Preceptor, University of Michigan, Summer 2012

- Yuhao Zhang (Tsinghua University, China), Summer Research Internship Preceptor, University of Michigan, Summer 2012

- Wenke Wang (School of Information), Internship Preceptor, University of Michigan, Summer 2012

- Shuo Yang (School of Information), Practicum Preceptor, University of Michigan, 2012–2013

- Eunkyoung (Kimberly) Song (School of Information & Department of Health Management and Policy, School of Public Health), Independent Study Mentor, University of Michigan, Winter 2011

- Lauren Wendel (School of Information & Department of Health Behavior and Health Education, School of Public Health), Independent Study Mentor, University of Michigan, Fall 2009 & Winter 2011

- Kevin Bohnsack, Capstone Project Mentor, Department of Health Management and Policy, School of Public Health, University of Michigan, Winter 2008

- George Wang (Stephen M. Ross School of Business), Shen Yang (Stephen M. Ross School of Business), Independent Study Mentor, University of Michigan, Summer 2007

Teaching (winter, spring, fall, summer)

Instructor

Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, Irvine, CA, 2016–present

- IN4MATX 295: Introduction to Health Informatics, w25
- IN4MATX 171/PUBLTH 105: Introduction to Health Informatics, f20, f21
- IN4MATX 172/PUBLTH 106: Project in Health Informatics, w17, s18, w19, w20, w21, su22, su23, su24, su25
- IN4MATX 295: Current Trends in Health Informatics, sp16, w17, s19
- IN4MATX 174: Health Data Analytics, s23, s24, s25

Institute for Clinical and Translational Science (ICTS), University of California, Irvine, Irvine, CA, 2019–present

- "*Translational Informatics*," Focused Flexible Accelerated Studies (FFASt) Workshop, w19

California State Summer School for Mathematics & Science (COSMOS), 2017–present

- "*Introduction to Medical/Health Informatics*," su17, su18, su19

Department of Health Management and Policy, School of Public Health, University of Michigan, Ann Arbor, MI, 2006–2015

- PUBLTH 573/SI 573: Health Informatics Seminar I, f14, f15
- PUBLTH 574/SI 574: Health Informatics Seminar II, w14, w15
- HMP 668/SI 542: Introduction to Health Informatics, w07, w08, w09, w10, w11, w12
- HMP 668: Introduction to Health Informatics (executive program), su14
- BIOINF 555/HMP 696/SI 642/SI 742: Concepts in Heath Informatics, f07, f09, f10, f11
- HMP 669: Database Systems and Internet Applications in Health Care, w07, w08, w09, w10, f13
- HMP 648/SI 525: Empirical Methods for Health Informatics, w14
- HMP 601: Healthcare Quality, Performance Measurement and Improvement, w14 (with Kyle Grazier and Brant Fries)
- HMP 605: Health Information Technology, w11, w12
- HMP 605: Health Information Technology (Executive Program), su11

Course Coordinator

- ChE 596/BME 596/Pharm 596 Health Engineering: Innovation for Quality, Affordability and Efficiency (3 credit hours), College of Engineering Department of Chemical Engineering, University of Michigan, w10

Guest Lecturer

- IN4MATX 171/PUBLTH 105 Introduction to Health Informatics, "*Health Data Analytics*," Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, f22, w23, f23, w25, f25
- MS-BATS 201 Pathways in Biomedical & Translational Science, "*Approaches to Collecting & Analyzing Data*," School of Medicine, Susan & Henry Samueli College of Health Sciences, University of California, Irvine, su24, su25

- MED 264 Principles of Biomedical Informatics, "*Human Factors: Workflow Optimization and Human-Computer Interaction*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f23

- NS 211 Nursing Seminar, "*Computational Ethnography and Clinical Workflow Analysis*," Sue & Bill Gross School of Nursing, University of California, Irvine, f22

- MED 264 Principles of Biomedical Informatics, "*Human Factors: Workflow Optimization and Human-Computer Interaction*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f22

- MED 264 Principles of Biomedical Informatics, "*Human Factors: Workflow Optimization and Human-Computer Interaction*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f21

- MED 262 Current Trends in Biomedical Informatics, "*The Potential (or the Lack Thereof) of Voice-based Ambient Clinical Documentation Technologies*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f20

- MED 264 Principles of Biomedical Informatics, "*Computational Ethnography: A New Method for Conducting Human–Computer Interaction Research*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f20

- MED 264 Principles of Biomedical Informatics, "*Studying Health IT Usability*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f19

- MED 264 Principles of Biomedical Informatics, "*Human Factors: Workflow Optimization and Human-Computer Interaction*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f18

- PUBHLTH 293 Foundations of Clinical and Translational Science, "*Translational Research Informatics*," Program in Public Health, University of California, Irvine, f18, f19

- IN4MATX 171/PUBHLTH 105 Introduction to Medical Informatics, "*Quantifying the Impact of Health IT on Clinical Workflow*," Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, w18

- MED 264 Principles of Biomedical Informatics, "*Latest Research on Health Information Technology's Unintended Consequences*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f17

- MED 262 Current Trends in Biomedical Informatics, "*Electronic Health Records Adoption and the Implications for Health Services Research*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, w17

- HMP 669 Database Management and Internet Applications in Health Care, "*Medical Vocabularies and Biomedical Ontologies*," Department of Health Management and Policy, School of Public Health, University of Michigan, f14

- Summer Health Management Program, "*Use of EHRs for Performance Monitoring and Quality Improvements: Data Quality, Data Interoperability, and eMeasures*," University of Michigan–National Sun Yat-sen University Health Management Institute, su14

- Hospital CIO Training Program, "*Use of EHRs for Performance Monitoring and Quality Improvements: Data Quality, Data Interoperability, and eMeasures*," Peking University, Beijing, China, su14

- PUBHLTH 573/574 Health Informatics Seminar, "*Workflow Engineering in Health Informatics*," University of Michigan Health Informatics Program, f13

- Health Care: Economics and Industry, "*Accelerating Health IT Adoption in the U.S.: Opportunities and Challenges*," China Europe International Business School, Shanghai, China, f12

- 3630 Business Information Systems, "*Clinical Reminder System and User Interface Optimization*," Wayne State University, Detroit, MI, w07

- 3630 Business Information Systems, "*A Clinical Reminder System for Evidence-based Medicine Practice,*" Wayne State University, Detroit, MI, w06
- 95-703 Database Management, "*Advanced SQL Scripts and XML Queries,*" Carnegie Mellon University, Pittsburgh, PA, f03, f04
- 95-729 Ecommerce Technologies, "*Client-Side Programming Techniques,*" Carnegie Mellon University, Pittsburgh, PA, f02, f03
- INFSCI 1024 System Analysis and Design, "*User Interface and Design Patterns,*" University of Pittsburgh, Pittsburgh, PA, f04

Teaching Assistant, Carnegie Mellon University, Pittsburgh, PA, 2000–2006

95-704 Advanced Database Management, f00, f01, w02, w03, w05
95-791 Data Mining, w02
95-797 Data Warehousing, f03
95-703 Database Management, f03, f04
95-703 Database Management Distance Learning for GM Managers, f05
95-709 Decision Support Systems, f03, w06
95-722 Digital Transformation, w06
95-730 Electronic Commerce, w04, w05
95-730 Electronic Commerce Distance Learning for GM Managers, w04, f04, f05
95-729 Ecommerce Technologies, f02, f03
95-853 Healthcare Information Systems, w02, w03, w04, w05
95-733 Internet Technologies, w03
90-815 IT for Public Policy and Management: Decision Support Systems, w04
95-875 Java I & II, su00
95-706 Object Oriented Software Analysis and Design, su04
95-712 Object Oriented Programming in Java, su04, su05
95-701 Organizational Communication and Distributed Object Technology, su01

Teaching Assistant, China Europe International Business School, Shanghai, China, 1998–1999

506 Management Information Systems, w98, w99

Professional Membership

Current

American College of Medical Informatics (ACMI)
American Medical Informatics Association (AMIA)
Association for Computing Machinery (ACM)
China Health Policy and Management Society (CHPAMS, founding member)

Past

AcademyHealth
Association for Information Systems (AIS)
European Alliance for Innovation (EAI)
Healthcare Information and Management Systems Society (HIMSS)
Institute for Operation Research and the Management Sciences (INFORMS)