

Eric Nalisnick

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Education

Ph.D. Computer Science	University of California, Irvine	2013-Present
M.S. Computer Science	Lehigh University	2012-2013
B.S. Computer Science & English Literature	Lehigh University	2008-2012

Publications

CONFERENCE ARTICLES

1. **E. Nalisnick** and P. Smyth. Learning Priors for Invariance. In *Proceedings of the 21st International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2018.
2. **E. Nalisnick** and P. Smyth. Learning Approximately Objective Priors. In *Proceedings of the 33rd Conference on Uncertainty in Artificial Intelligence (UAI)*, 2017.
3. **E. Nalisnick** and P. Smyth. Stick-Breaking Variational Autoencoders. In *Proceedings of the 5th International Conference on Learning Representations (ICLR)*, 2017.
4. **E. Nalisnick**, B. Mitra, N. Craswell, and R. Caruana. Improving Document Ranking with Dual Word Embeddings. In *Proceedings of the 25th World Wide Web Conference (WWW)*, 2016.
5. **E. Nalisnick** and H. Baird. Character-to-Character Sentiment Analysis in Shakespeare's Plays. In *Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics (ACL)*, 2013.
6. **E. Nalisnick** and H. Baird. Extracting Sentiment Networks from Shakespeare's Plays. In *Proceedings of the 12th International Conference on Document Analysis and Recognition (ICDAR)*, 2013.

WORKSHOP ARTICLES

7. D. Ji, **E. Nalisnick**, and P. Smyth. Mondrian Processes for Flow Cytometry Analysis. *Machine Learning for Health*, NIPS 2017.
8. **E. Nalisnick** and P. Smyth. Variational Inference with Stein Mixtures. *Advances in Approximate Bayesian Inference*, NIPS 2017.
9. **E. Nalisnick** and P. Smyth. The Amortized Bootstrap. *Implicit Models*, ICML 2017.
10. **E. Nalisnick** and P. Smyth. Variational Reference Priors. Workshop Track, ICLR 2017.
11. **E. Nalisnick**, L. Hertel, and P. Smyth. Approximate Inference for Deep Latent Gaussian Mixtures. *Bayesian Deep Learning*, NIPS 2016.

12. **E. Nalisnick** and P. Smyth. Nonparametric Deep Generative Models with Stick-Breaking Priors. *Data-Efficient Machine Learning*, ICML 2016.
13. J. Park, M. Blume-Kohout, R. Krestel, **E. Nalisnick**, and P. Smyth. Analyzing NIH Funding Patterns over Time with Statistical Text Analysis. *Scholarly Big Data*, AAAI 2016.

Research Experience

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| Graduate Student Researcher
Smyth DataLab, University of California, Irvine.
Supervisor: Padhraic Smyth | Fall 2013 to Present |
| Applied Scientist Intern
Digital Recommendations, Amazon.
Supervisors: Vijai Mohan, Eiman Elnahrawy | Fall 2016 |
| Research Intern
Cortex, Twitter.
Supervisor: Hugo Larochelle | Summer 2016 |
| Research Intern
Microsoft Research / Bing, Microsoft.
Supervisors: Rich Caruana, Nick Craswell | Summer 2015 |
| Research Scientist Intern
Recommendations Modeling, Amazon.
Supervisors: Vijai Mohan, Rahul Bhagat | Summer 2014 |

Engineering Experience

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| Software Engineering Intern
Apparel Recommendations, Amazon. | Summer 2013 |
| Software Engineering Intern
Fulfillment Center Technologies, Amazon. | Summer 2012 |
| Software Engineering Intern
Website Rendering Platform, Amazon. | Summer 2011 |

Teaching

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|---|-----------------|
| 1. Instructor University of California, Irvine
CS 299: Individual Study (Topics in Approximate Bayesian Inference) | 2017 |
| 2. Teaching Assistant University of California, Irvine
CS 274A: Probabilistic Learning | 2017 |
| 3. Instructor UCI Data Science Initiative
Advanced Predictive Modeling with Python | 2016 to Present |

4. Instructor | UCI Data Science Initiative
Predictive Modeling with Python 2015 to 2017

Talks

1. Approximate Inference for Frequentist Uncertainty Estimation, SOCAL ML SYMPOSIUM 2017
2. The Amortized Bootstrap, ICML WORKSHOP ON IMPLICIT MODELS 2017
3. Deep Generative Models with Stick-Breaking Priors, UCI AI/ML SEMINAR 2017
4. Alternative Priors for Deep Generative Models, OPENAI 2017
5. Nonparametric Deep Generative Models, ICML WORKSHOP ON DATA-EFFICIENT ML 2016

Professional Service

JOURNAL REVIEWING

- | | |
|-------------------------------------|------|
| Machine Learning | 2017 |
| Data Mining and Knowledge Discovery | 2017 |

CONFERENCE REVIEWING

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|---|----------------------------------|
| Neural Information Processing Systems (NIPS) | 2016, 2017 (best reviewer award) |
| International Conference on Learning Representations (ICLR) | 2018 |