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EDUCATION

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| University of California, Irvine (Irvine, CA) | Sep. 2007-Present |
| • Ph.D., Computer Science/Computer Graphics, GPA 3.99/4 | |
| Sharif University of Technology (Tehran, Iran) | Sep. 2002-Jun. 2006 |
| • B.S., Computer Engineering/Software, GPA 17.8/20 | |
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RESEARCH INTERESTS

Computational Cameras and Projectors, Large-Scale Walkthrough Rendering, Immersive Multi-Projector Displays, Visualization, Virtual Reality, Computer Graphics.

JOURNAL PUBLICATIONS

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- J10.** [Behzad Sajadi](#), Aditi Majumder, Manuel M. Oliveira, Rosália G. Schneider, and Ramesh Raskar, *Using Patterns to Encode Color Information for Dichromats*, IEEE Transactions on Visualization and Computer Graphics, 2011 (To Appear).
- J9.** Daniel G. Aliaga, Yu Hong Yeung, Alvin Law, [Behzad Sajadi](#), Aditi Majumder, *Fast High-Resolution Appearance Editing Using Superimposed Projections*, ACM Transactions on Graphics, 2011 (To Appear).
- J8.** [Behzad Sajadi](#), Aditi Majumder, *Auto-Calibration of Multi-Projector CAVE-like Immersive Environments*, IEEE Transactions on Visualization and Computer Graphics, Oct. 2011.
- J7.** Alwin Law, Daniel Aliaga, [Behzad Sajadi](#), Aditi Majumder, Zygmunt Pizlo, *Perceptually-Based Appearance Modification for Compliant Appearance Editing*, Computer Graphics Forum, Volume 30, Issue 8, pages 2288–2300, Dec. 2011.
- J6.** [Behzad Sajadi](#), Aditi Majumder, Kazuhiro Hiwada, Ramesh Raskar, Atsuto Maki, *Switchable Primaries Using Shiftable Layers of Color Filter Arrays*, ACM Transactions on Graphics, Volume 30, Issue 4, Article 65, Aug. 2011.
- J5.** [Behzad Sajadi](#), Aditi Majumder, *Automatic Registration of Multi-Projector Domes Using a Single Uncalibrated Camera*, Computer Graphics Forum, Volume 30, Issue 3, pages 1161–1170, Jun. 2011
- J4.** [Behzad Sajadi](#), Aditi Majumder, *Auto-Calibrating Projectors for Tiled Displays On Piecewise Smooth Vertically Extruded Surfaces*, IEEE Transactions on Visualization and Computer Graphics, Volume 17, Issue 9, pages 1209 – 1222, Sep. 2011.
- J3.** [Behzad Sajadi](#), Aditi Majumder, *Scalable Multi-view Registration for Multi-Projector Displays on Vertically Extruded Surfaces*, Computer Graphics Forum, Volume 29, Issue 3, pages 1063–1072, Jun. 2010.
- J2.** [Behzad Sajadi](#), Aditi Majumder, *Markerless View-Independent Registration of Multiple Distorted Projectors on Extruded Surfaces Using Uncalibrated Camera*, IEEE Transactions on Visualization and Computer Graphics, Volume 15, Issue 6, pages 1307 – 1316, Nov.-Dec. 2009.
- J1.** [Behzad Sajadi](#), Maxim Lazarov, M. Gopi, Aditi Majumder, *Color Seamlessness in Multi-Projector Displays Using Constrained Gamut Morphing*, IEEE Transactions on Visualization and Computer Graphics, Volume 15, Issue 6, pages 1317 – 1326, Nov.-Dec. 2009.
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CONFERENCE PUBLICATIONS

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- C12.** [Behzad Sajadi](#), Aditi Majumder, Kazuhiro Hiwada, Ramesh Raskar, Atsuto Maki, *Switchable Primaries Using Shiftable Layers of Color Filter Arrays*, ACM SIGGRAPH, Aug. 2011 (Same as J6).
- C11.** [Behzad Sajadi](#), Aditi Majumder, *Automatic Registration of Multi-Projector Domes Using a Single Uncalibrated Camera*, Eurographics/IEEE EUROVIS, Jun. 2011 (Same as J5).
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- C10.** Behzad Sajadi, Shan Jiang, Jae-Pil Heo, Sung-Eui Yoon, M. Gopi, *Data Management for SSDs for Large-Scale Interactive Graphics Applications*, ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games (I3D), Feb. 2011.
- C9.** Behzad Sajadi, Aditi Majumder, *Automatic Registration of Multiple Projectors on Swept Surfaces*, ACM Virtual Reality Software and Technology, Nov. 2010.
- C8.** Behzad Sajadi, Aditi Majumder, *Auto-Calibration of Cylindrical Multi-Projector Systems*, IEEE Virtual Reality, Mar. 2010, **Best Paper Award**.
- C7.** Behzad Sajadi, Maxim Lazarov, Aditi Majumder, *ADICT: Accurate Direct and Inverse Color Transformation*, European Conference of Computer Vision (ECCV), Sep. 2010.
- C6.** Behzad Sajadi, Aditi Majumder, *Scalable Multi-view Registration for Multi-Projector Displays on Vertically Extruded Surfaces*, Eurographics/IEEE EUROVIS, Jun. 2010 (Same as J3).
- C5.** Behzad Sajadi, Aditi Majumder, *Markerless View-Independent Registration of Multiple Distorted Projectors on Extruded Surfaces Using Uncalibrated Camera*, IEEE Visualization, Oct. 2009, **Honorable Mention** (Same as J2).
- C4.** Behzad Sajadi, Maxim Lazarov, M. Gopi, Aditi Majumder, *Color Seamlessness in Multi-Projector Displays Using Constrained Gamut Morphing*, IEEE Visualization, Oct. 2009 (Same as J1).
- C3.** Behzad Sajadi, Aditi Majumder, *Maintaining Color Consistency Across Non-Linear Devices*, International Symposium of Society for Information Display (SID), May. 2009.
- C2.** Maxim Lazarov, Hamed Pirsiavash, Behzad Sajadi, Uddipan Mukherjee, Aditi Majumder, *Data Handling Displays*, IEEE/ACM International Workshop on Projector-Camera Systems (Procams), Jun. 2009.
- C1.** Behzad Sajadi, Yan Huang, Pablo Diaz-Gutierrez, Sung-Eui Yoon, M. Gopi, *A Novel Page-Based Data Structure for Interactive Walkthroughs*, ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games (I3D), Feb. 2009.
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PATENTS

1. Behzad Sajadi, Yasuhiro Komori, Hung Khei Huang, *Image Projection System With Keystone Correction*. Canon. Sep, 16 2010: US 2010/0231811 A1.
 2. Behzad Sajadi, Yasuhiro Komori, Hung Khei Huang, *Image Projection System With Auto-focus*. Canon. Aug, 26 2010: US 2010/0214540 A1.
 3. Behzad Sajadi, Yasuhiro Komori, Hung Khei Huang, *Screen Profile for WCS (Widows Color System)*, Canon, Under review.
 4. Behzad Sajadi, Yasuhiro Komori, Hung Khei Huang, *Accounting for spatial variations in WCS (Widows Color System)*, Canon, Under review.
 5. Aditi Majumder, Behzad Sajadi, *Distributed methods to register Images from multiple projector-camera enabled devices*, UC Irvine, Under review.
 6. Aditi Majumder, Behzad Sajadi, *Automatically registering multiple projectors on a dome or partial dome*, UC Irvine, Under review.
 7. Behzad Sajadi, Aditi Majumder, *An Accurate Direct and Inverse Color Transfer Function*, UC Irvine, Under review.
 8. Behzad Sajadi, Aditi Majumder, *Markerless Geometric Registration of Multiple Projectors on Cylindrical and Other Extruded Surfaces Using an Uncalibrated Camera*, UC Irvine, Under review.
 9. Aditi Majumder, M. Gopi, Behzad Sajadi, *Color Seamlessness in Tiled Displays*, UC Irvine, Under review.
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HONORS & AWARDS

Best Paper Award, IEEE Virtual Reality, 2010

Runner-up for Best Paper Award, IEEE Visualization 2009

Recipient of Dean's Fellowship, including four years of full financial support, from University of California, Irvine, 2007-2011

Silver medal in National Computer Olympiad, Iran, 2001

Ranked among the top five students among more than 100 students during all the four years of undergraduate studies at Sharif University of Technology, 2002-2006

TEACHING EXPERIENCES

Aditi Majumder and Behzad Sajadi, *Building your own Projection-Based VR Display System*, IEEE Virtual Reality, 2010.

Aditi Majumder and Behzad Sajadi (co-instructor), *Introduction to Computational Imaging*, Department of Computer Science, University of California, Irvine, Winter 2012.

Teacher assistant for Introduction to Computer Graphics (University of California, Irvine, Fall 2010)

Teacher assistant for Introduction to Computer Graphics (Sharif University, Fall 2006)

Teacher assistant for Design and analysis of algorithms (Sharif University, Winter 2006)

Teacher assistant for Computer Structure and Language (Sharif University, Winter 2005)

WORKING EXPERIENCES

Cubic Defense Applications: Consultant and researcher (Fall 2011)

Beckman Laser Institute (BLI), Irvine, California: Collaborative project (Summer 2011)

Camera Culture Group, MIT Media Lab: Collaborative research under the supervision of Prof. Ramesh Raskar (Summer 2010)

Walt Disney Imagineering: Consultant and researcher (Summer 2009 and Winter 2010)

Purdue University: Collaborative research under the supervision of Prof. Daniel Aliaga (Winter 2008)

CDA (Canon Development Americas): Research-based internship (Summer 2008)

Computer Graphics and Visualization Laboratory, University of California, Irvine: Graduate research assistant (2007-Present)

Image and video processing lab., Sharif University, Tehran, Iran: Research assistant (2006-2007)

AICTC (Advanced Information and Comm. Technology Center), Tehran, Iran: Web application designer (2005-2006)

Asr Gooyesh, Tehran, Iran: User interface designer and programmer. (2004-2005)

TECHNICAL SKILLS

Languages

- Proficient in: C and C++, Java, Matlab, PHP
- Familiar with: Python, C#, Microsoft Visual Basic

Technologies

- Proficient in: OpenGL, J2EE, Hibernate
- Familiar with: Spring, Open Laszlo

Databases

- Proficient in: MySQL
 - Familiar with: Oracle, Microsoft Access
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SERVICE WORK

Student Volunteer Chair, ACM Virtual Reality (VR), 2012

Journal Reviewer: IEEE Transactions on Visualization and Computer Graphics (TVCG), Computer Graphics Forum (CGF), Journal of Computer Science and Technology (JCST)

Conference Reviewer: ACM Siggraph 2011, Pacific Graphics 2011, ISMAR 2010

Student Volunteer, ACM Virtual Reality Software and Technology (VRST), 2007
