# Eakta Jain

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| RESEARCH FOCUS | Perceptually-driven algorithms for human-centered computer graphics. |
| RESEARCH INTERESTS | Character Animation, Hand-drawn Animation, Comic Art, Video Editing, Eyetracking, Motion Capture, Applied Perception, Computer Vision |

EDUCATION

⋄ **Carnegie Mellon University**, Pittsburgh, PA.
Ph.D., Robotics Institute

⋄ **Carnegie Mellon University**, Pittsburgh, PA.
Masters in Robotics

⋄ **Indian Institute of Technology Kanpur**, India.
Bachelor of Technology, Department of Electrical Engineering, 2006.

JOURNAL PUBLICATIONS

⋄ "Three-dimensional Proxies for Hand-drawn Characters", Eakta Jain, Yaser Sheikh, Moshe Mahler, Jessica Hodgins, *ACM Transactions on Graphics*, 2012.

⋄ "Gaze-driven Video Re-editing", Eakta Jain, Yaser Sheikh, Ariel Shamir, Jessica Hodgins, accepted with minor revisions to *ACM Transactions on Graphics*.

CONFERENCES AND SYMPOSIA

⋄ "Predicting Primary Gaze Behavior Using Social Saliency Fields", Hyun Soo Park, Eakta Jain, Yaser Sheikh, International Conference on Computer Vision (ICCV) 2013.

⋄ "3D Social Saliency from Head-mounted Cameras", Hyun Soo Park, Eakta Jain, Yaser Sheikh, Advances in Neural Information Processing Systems (NIPS), 2012,

⋄ "Inferring Artistic Intention in Comic Art through Viewer Gaze", Eakta Jain, Yaser Sheikh, Jessica Hodgins, Proceedings of the *ACM Symposium on Applied Perception (SAP)*, 2012, **Honorable Mention Best Paper Award**.

⋄ "Augmenting Hand Animation with Three-dimensional Secondary Motion", Eakta Jain, Yaser Sheikh, Moshe Mahler, Jessica Hodgins, Proceedings of the *ACM Symposium on Computer Animation (SCA)*, 2010, **Best Paper Award**.

⋄ "Leveraging the Talent of Hand Animators to Create Three-Dimensional Animation", Eakta Jain, Yaser Sheikh, Jessica Hodgins, Proceedings of the *ACM Symposium on Computer Animation (SCA)*, 2009.

⋄ "Hypergraphs- Organizing complex natural neural networks", Eakta Jain, Michael J. Healy, Linda Saland, Derek Hamilton, Andrea Allan, Kevin Caldwell, Thomas P. Caudell, Proceedings of the *International Conference on Intelligent Sensing and Information Processing*, 2005.

⋄ "Dancing Puppets- An Innovative Approach to Learning Programming", Riya Bhattacharya, Nidhi, Eakta Jain, Utsav Maitra, Gaurav Sharma, S. Bipin Agravat, Amitabha Mukherjee, Proceedings of the *INEER International Conference on Engineering Education*, University of Florida, 2004.

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| PATENTS | ⬦ U.S. Patent applied for "Augmenting Hand Animation with Three-dimensional Secondary Motion". (with co-authors) |
| WORK EXPERIENCE | ⬦ University of Florida, Gainesville FL, U.S.A.<br>Assistant Professor, February 2014 - present |
| | ⬦ Texas Instruments, Dallas TX, U.S.A.<br>Member of Technical Staff, Embedded Processing Systems Lab, Dec 2012 - Feb 2014<br>Systems Software Engineer, Natural User Interfaces Team, July 2012 - Dec 2012 |
| | ⬦ Disney Research, Pittsburgh, U.S.A.<br>Lab Associate, September 2011 - January 2012 |
| | ⬦ Disney Research, Pittsburgh, U.S.A.<br>Lab Associate, June-August 2010 |
| | ⬦ Disney Research Pittsburgh, U.S.A.<br>Lab Associate, June-August 2008 |
| | ⬦ Walt Disney Animation Studios, Burbank, U.S.A.<br>Summer Intern, June-August 2007 |
| | ⬦ Applied Electro-Magnetics, NOIDA, India<br>Summer Intern, June-August 2004 |
| AWARDS | ⬦ Honorable Mention Best Paper Award, Symposium on Applied Perception (2012) |
| | ⬦ Best Paper Award, Symposium on Computer Animation (2010) |
| | ⬦ Finalist, Google Anita Borg Memorial Scholarship (2008) |
| | ⬦ Certificate of Merit for Academic Excellence, IIT Kanpur (2002-2003) |
| PANELS | ⬦ Panel on graduate student life at Fusion Forum, graduate school recruitment event for underrepresented students, November 2011 |
| | ⬦ Panel on graduate student advising and faculty-student relationships at Fusion Forum, graduate school recruitment event for underrepresented students, November 2009 |
| | ⬦ Avenues to Success from Advisors to Research for PhD students, Faculty and graduate student panel, CMU Graduate Orientation, August 2009 |
| SEMINARS AND COLLOQUIA | ⬦ Invited talk, University of Texas at Austin, 2014 |
| | ⬦ Computer Science Department Seminar, University of Texas Dallas, 2012 |
| | ⬦ Summer seminar, MPI Saarbrucken, 2011 |
| | ⬦ Invited talk, MPI Tubingen, 2011 |
| | ⬦ Graphics group talk, University of Stuttgart, 2011 |
| | ⬦ Invited talk, Disney Research Zurich, 2011 |
| ACADEMIC SERVICE | ⬦ Reviewer for SIGGRAPH 2014, IEEE Transactions on Multimedia 2014, SIGGRAPH Asia 2012, ACM TOG 2012, SIGGRAPH 2011 |
| | ⬦ Ph.D. Thesis Committee Member for Abhishek Chhetri (UT Dallas) |
| | ⬦ Qualifiers Committee Member for Laura Trutoiu (CMU) |
| | ⬦ Masters Thesis Committee Member for Xuehan Xiong (CMU) |