

MOHIT JAIN

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Phone: 91 96208 33132, 1 206 739 2442

INTERESTS Ubiquitous Computing, Health Sensing, Big Data, Human Computer Interaction, Sustainability, Smarter Education, Computer-Supported Cooperative Work, ICTs for Emerging Markets

EDUCATION **University of Washington**, Seattle, WA, USA
pursuing PhD, Computer Science & Engineering (*Specialization*: Ubiquitous Computing), started Sept'15
Advisor: Dr. Shwetak Patel, *GPA*: 3.94/4.0 (received MS, Jun'16)

University of Toronto, Toronto, Ontario, Canada
M.S, Computer Science (*Specialization*: Human Computer Interaction), Jan'11
Advisor: Dr. Ravin Balakrishnan, *GPA*: 4.0/4.0

Dhirubhai Ambani Institute of ICT (DA-IICT), Gandhinagar, Gujarat, India
B.Tech, Information and Communication Technology, May'09, *GPA*: 9.61/10 (**Bronze Medalist**)

PROFESSIONAL EXPERIENCE **University of Washington**, USA Sept'15 – current
Graduate Research Assistant, *UbiComp Lab*

IBM Research, India Jun'12 – current
Software Research Engineer, *Smarter Energy Team*

Amazon, USA Oct'11 – May'12
Software Development Engineer, *Digital Videogames Team*

HP Labs, India Jun'11 – Sept'11
Research Intern, *Mobile and Immersive Experience Lab*

Microsoft Research, India Feb'11 – May'11
Research Intern, *Technology for Emerging Markets Team*

University of Toronto, Canada Sept'09 – Jan'11
Graduate Research Assistant, *Digital Graphics Project Lab*

Microsoft Research, India May'10 – Aug'10
Visiting Researcher, *Technology for Emerging Markets Team*

Greenbelt Foundation, Canada Sept'09 – Dec'09
Interface Designer (for greenbeltfresh.ca)

University of California, Berkeley and **Microsoft Research**, India Jun'07 – Jul'07
Software Developer Intern, *Technology for Emerging Markets Team*

SELECTED PUBLICATIONS
For full list, please check <http://homes.cs.washington.edu/~mohitj>

- [17] **Jain, M.**, Chandan, V., Prakash, A.P., Arya, V., Sridhar, R. and Ramesh, B. Software-only Occupancy Inference in a Workplace. In *Proc. of ISGT North America 2016*, IEEE Press.
- [16] **Jain, M.**, Chandan, V., Minou, M., Thanos, G., Wijaya, T.K., Lindt, A. and Gylling, A. Methodologies for Effective Demand Response Messaging. In *Proc. of SmartGridComm 2015*, IEEE Press, pp. 453-458.
- [15] **Jain, M.**, Chhabra, D. and Singh, A. Comparing Energy Feedback Techniques for Dormitory Students in India. In *Proc. of BuildSys 2015*, ACM Press, pp. 221-224.
- [14] **Jain, M.**, Khadilkar, H., Sengupta, N., Charbiwala, Z., Tennakoon, K.U., Wahab, R.H.A, Silva, L.C. and Seetharam, D. Collaborative Energy Conservation in a Microgrid. In *Proc. of BuildSys 2014*, ACM Press, pp. 130-139. [27.6% acceptance rate] **[Best Paper Award]** **[Runner-Up Best Presentation Award]**
- [13] Chandan, V., **Jain, M.**, Khadilkar, H., Charbiwala, Z., Jain, A., Ghai, S., Kunnath, R. and Seetharam, D. UrJar: A Lighting Solution using Discarded Laptop Batteries. In *Proc. of DEV 2014*, ACM Press, pp. 21-

30. [29.7% acceptance rate]

- [12] Chetlur, M., Tamhane. A., Reddy, V., Sengupta, B., **Jain, M.**, Sukjunnimit, P. and Wagh, R. EduPaL: Enabling Blended Learning in Resource Constrained Environments. In *Proc. of DEV 2014*, ACM Press, pp. 73-82. [29.7% acceptance rate]
- [11] **Jain, M.**, Agrawal, A., Ghai, S.K., Truong, K.N. and Seetharam, D.P. “*We are not in the loop*”: Resource Wastage and Conservation Attitude of Employees in Indian Workplace. In *Proc. of UbiComp 2013*, ACM Press, pp. 687-696. [20% acceptance rate]
- [10] **Jain, M.**, Cockburn, A. and Madhvanath, S. Comparison of Phone-based Distal Pointing Techniques for Point-Select Tasks. In *Proc. of INTERACT 2013*, Lecture Notes in Computer Science, Vol 8118, Part II, pp. 714-801.
- [9] **Jain, M.**, Tekchandani, K. and Truong, K.N. Evaluating the Effect of Phrase Set in Hindi Text Entry. In *Proc. of INTERACT 2013*, Lecture Notes in Computer Science, Vol 8120, Part IV, pp. 195-202.
- [8] Shrinivasan, Y.B., **Jain, M.**, Seetharam, D.P., Choudhary, A., Huang, E., Dillahunt, T. and Mankoff, J. Deep Conservation in Urban India and its Implications for the Design of Conservation Technologies. In *Proc. of CHI 2013*, ACM Press, pp. 1969-1978. [20% acceptance rate]
- [7] Medhi, I., **Jain, M.**, Tewari, A., Bhavsar, M., Matheke-Fischer, M. and Cutrell, E. Combating Rural Child Malnutrition through Inexpensive Mobile Phones. In *Proc. of NordiCHI 2012*, ACM Press, pp. 635-644. [24.6% acceptance rate]
- [6] Medhi, I., Tewari, A., **Jain, M.** and Cutrell, E. The Fate of a Digital Slate: Unexpected Issues with Deployment in Rural India. *User Experience Magazine: Volume 11, Issue 2*, UXPA Pub., 2012.
- [5] **Jain, M.** and Balakrishnan, R. User Learning and Performance with Bezel Menus. In *Proc. of CHI 2012*, ACM Press, pp. 2221-2230. [23% acceptance rate]
- [4] **Jain, M.**, Birnholtz, J., Cutrell, E. and Balakrishnan, R. Exploring Display Techniques for Mobile Collaborative Learning in Developing Regions. In *Proc. of MobileHCI 2011*, ACM Press, pp. 81-90. [22.8% acceptance rate]
- [3] Gupta, A., Shekhar, P., Samdaria, N., **Jain, M.** and Pal, J. DISHA: Multiple Mice in Narrative Content-based Computer Aided Learning for Children. In *IDID 2010*.
- [2] **Jain, M.**, Gupta, A., Samdaria, N., Shekhar, P. and Pal, J. DISHA: DISease and Health Awareness for Children on Multiple Input Devices. In *ICTD 2009*. (Video# [1](#), [2](#))
- [1] Pal, J., Pawar, U.S., Joshi, A., **Jain, M.**, Thota, S.G., Teja, S. and Anikar, S. From Pilot to Practice: Creating Multiple-Input Multimedia Content for Real-World Deployment. In *IUI 2008*.

PATENTS

- [9] **Jain, M.**, Kumar, P. and Kota, R.C. Adaptive Communications Display Window. 2017.
- [8] Kumar, A.P., Kumar, P., Shah, A.B., **Jain, M.**, Nawhal, M., Sharma, G. and Singhee, A. Transforming Jewellery Shopping Experience: Combining Real and Virtual World. 2017.
- [7] Wang, E., **Jain, M.** and Patel, S. Smartphone Based Blood Pressure Measurement using Cameras and Microphone. 2016.
- [6] Whitmire, E., **Jain, M.**, Goel, M. and Patel, S. DigiTouch: Reconfigurable Thumb-to-Finger Interaction for Input and Text Entry. 2016.
- [5] **Jain, M.** and Prakash, A.P. Display Interaction based upon a Distance of Input. 2016.
- [4] Kota, R.C., Bandyopadhyay, S., Mitra, R., **Jain, M.**, and Arya, V. Identifying and Prioritizing Errors in Connectivity Models of Distribution Networks for Efficient Field Inspections. 2016.

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- [3] **Jain, M.**, Nawhal, M., Dupatti, S., and Dechu, S. Indoor Location Detection using Ceiling Patterns. 2015.
- [2] **Jain, M.**, Prakash, A.P. and Charbiwala, Z, M. US 20170031463 A1. Single-hand, Full-screen Interaction on a Mobile Device. 2015.
- [1] **Jain, M.**, Madhvanath, S. and Sharma, V. WO2013157013. Selection of User Interface Elements of a Graphical User Interface. 2013.

COMPUTER SKILLS

Languages: Python, Matlab, Java, C, C++, C#, HTML, JavaScript, CSS, PHP, JSP
Tools: SPSS, Adobe Photoshop, Adobe Illustrator, Microsoft Office, Microsoft Expression Blend, LATEX, Apache Tomcat, WampServer, NetBeans IDE, Eclipse, Bluemix
Database Systems: MySQL, IBM DB2, SQLite, DashDB, Cloudant
Mobile Platforms: Android, Java ME

RELEVANT COURSES

Data Science, Ubiquitous Computing, Data Visualization, Computer Vision, Human Computer Interaction, Topics in Interactive Computing, Machine Learning, Software Engineering, Computer Networks, Operating Systems, Distributed Computing, Database Management Systems, Security Protocols, Data Structures and Algorithms, Programming Languages

TEACHING ASSISTANT

CSE 414: Introduction to Data Management	University of Washington, Spring '16
CSE 590P: Advanced Topics in Ubiquitous Computing	University of Washington, Fall '15
CSC 428/CSC 2514: Human Computer Interaction	University of Toronto, Fall '10
CSC 343: Introduction to Databases	University of Toronto, Spring '10
CSC 369: Operating Systems	University of Toronto, Fall '09
IT 215: Systems Software	DA-IICT, Spring '09
IT 205: Data Structures and Algorithms	DA-IICT, Fall '08

MEDIA

For full list, please check <http://homes.cs.washington.edu/~mohitj>

- UrJar featured on the documentary series 'Galileo' on 'ProSieben' (Channel 7) in Germany. 2015.
- UrJar featured on MIT Technology Review. Discarded Laptop Batteries Keep the Lights On. By David Talbot on December 3, 2014. <http://www.technologyreview.com/news/532896/discarded-laptop-batteries-keep-the-lights-on/>
- UrJar featured on BBC. Old Laptop Batteries could Power Slums, IBM says. By Dave Lee on Dec 5, 2014. <http://www.bbc.com/news/technology-30345221>
- UrJar featured on IEEE Spectrum. Turning E-Waste into Light. By Peter Fairley on Dec 8, 2014 <http://spectrum.ieee.org/energywise/energy/the-smarter-grid/turning-ewaste-into-light>
- UrJar featured on SlashDot. Using Discarded Laptop Batteries To Power Lights. On Dec 06, 2014. <http://hardware.slashdot.org/story/14/12/06/231254/using-discarded-laptop-batteries-to-power-lights>
- *DISHA* won the MultiPoint Education Award in Microsoft Imagine Cup 2009 World Finals, Egypt. 2009. <http://www.microsoft.com/en-us/news/features/2009/Jun09/06-18ImagineCupTeams.aspx>

INVITED TALKS

- Invited for a *Guest talk* at EPFL (École Polytechnique Fédérale de Lausanne), in Sept 2013
- Invited for a *Guest talk* at IBM Zurich Research Lab, in Sept 2013
- Invited for a *Guest Lecture* at the IEEE International Conference on Advanced Networks and Telecommunications Systems ([ANTS](#)) 2012

AWARDS

- Received IBM Research 2016 '*Outstanding Technical Achievement Award*' for co-leading the UrJar project
- Received IBM Research 2016 '*Outstanding Technical Achievement Award*' for contributions to User Centric Demand Management project
- Received IBM Research 2015 First Patent Plateau
- Received IBM Research 2015 '*O Level Accomplishment*' Award (Customer Offering): Smarter Energy Customer Offering

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- Received IBM Research 2015 'A Level Accomplishment' Award (Image): UrJar
- Received IBM Research 2015 'A Level Accomplishment' Award (Science): User-Centric Demand Management
- Received IBM Research 2015 'A Level Accomplishment' Award (Accelerated Market Introduction): Analytics and Applications for Energy and Utility
- Received IBM Research 2015 'Research Division Award' for Energy Efficiency in Brunei
- Received IBM Research 2014 'A Level Accomplishment' Award for Efficient Energy Generation and Consumption in Brunei
- Received IBM Research 2014 'A Level Accomplishment' Award for Technology for Education (IDEAL) Project
- Best Paper Award at BuildSys 2014
- Runner-up Best Presentation Award at BuildSys 2014
- *DISHA* won the MultiPoint Education Award in Microsoft Imagine Cup 2009 World Finals, Egypt ([media](#))
- *DISHA* secured 3rd position in Microsoft Imagine Cup 2009 National Finals (Software Design), India
- Awarded the Bronze Medal for securing 3rd rank in a class of 240 students at DA-IICT
- *gSeek: An Autonomous Information Cataloguing Service*, secured 1st position in TechMarket 2008
- *Gujarat Informatics Limited Portal*, secured 1st position in IBM INVITE, 2007 Competition

FELLOWSHIPS AND SCHOLARSHIPS

- Heidelberg Laureate Forum 2017, free registration and accommodation
- University of Washington *Graduate Fellowship 2015-16*
- University of Toronto *Graduate Fellowship 2009-10 and 2010-11*
- *Wolfond Fellowship 2009* of CA\$5600
- *ICTD2009* travel grant of US\$600, free registration and accommodation

VOLUNTARY ACTIVITIES

- IBM Research India *Internship Co-ordinator* for 2017-18
- Reviewer: CHI (2011, 2013, 2014, 2015), MobileHCI (2011, 2012), APCHI (2012), DIS (2012), UbiComp (2013, 2014), CSCW (2014), IUI (2015)
- Teaching children *How to Use Computers* in Bangalore Government schools.

LANGUAGES

English (Fluent), Hindi (Native)