

MOHIT JAIN

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HCI & UbiComp researcher specializing in chatbots, novel interaction and developing technologies for developing world.

EDUCATION

- 2015-2019 Ph.D., Computer Science & Engineering, *University of Washington, USA*. GPA: **3.94/4.0**.
Advisor: Dr. Shwetak Patel (Area: Ubiquitous Computing)
- 2009-2011 Master of Science, Computer Science, *University of Toronto, Canada*. GPA: **4.0/4.0**.
Advisor: Dr. Ravin Balakrishnan (Area: Human-Computer Interaction)
- 2005-2009 Bachelor of Technology, Information & Communication Technology, *Dhirubhai Ambani Institute of ICT (DA-IICT), India*. GPA: **9.61/10 (Bronze Medalist)**.


SELECTED HONORS, AWARDS & GRANTS

- 2014-2019 8 IBM 'A-level Accomplishment' Award.
- 2018 IBM **Outstanding Equity Award** (awarded to <0.1% of IBMers).
- 2018 **Honorable Mention Award** (Top 5%) at ACM CHI.
- 2018 **Aegis Graham Bell Award** (Category: Innovation in IoT) for my team's work in Agribusiness.
- 2017 Winner of DFS Tech Chatbots Challenge.
- 2017 Young Researcher attendee at the **Heidelberg Laureate Forum**.
- 2016 2 IBM 'Outstanding Technical Achievement Award'.
- 2015 IBM 'Research Division Award'.
- 2014 **Best Paper Award** and **Runner-up Best Presentation Award** at BuildSys.
- 2009 **Wolfond Fellowship**.
- 2009 Won MultiPoint Education Award in **Microsoft Imagine Cup** World Finals, Egypt.
- 2009 **Travel scholarship** to attend ACM/IEEE ICTD conference.

PROFESSIONAL EXPERIENCES

- 2012-Present IBM Research, India. *Senior Research Engineer, Cognitive IoT Team*.
- 2011-2012 Amazon, USA. *Software Development Engineer, Digital Videogames Team*.
- 2015-Present University of Washington, USA. *Graduate Research Assistant, UbiComp Lab*.
- 2009-2011 University of Toronto, Canada. *Graduate Research Assistant, Digital Graphics Project Lab*.
- Summer 2011 HP Labs, India. *Research Intern, Mobile and Immersive Experience Lab*.
- Spring 2011 Microsoft Research, India. *Research Intern, Technology for Emerging Markets Team*.
- Summer 2010 Microsoft Research, India. *Visiting Researcher, Technology for Emerging Markets Team*.
- Fall 2009 Greenbelt Foundation, Canada. *Interface Designer*.
- Summer 2007 University of California, Berkeley and Microsoft Research, India. *Software Developer Intern*.

SELECTED JOURNAL AND CONFERENCE PAPERS

- 13 *FarmChat: A Conversational Agent to Answer Farmer Queries*.
Mohit Jain, Pratyush Kumar, Ishita Bhansali, Q. Vera Liao, Khai Truong, Shwetak Patel.
IMWUT (*PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*) 2, 4, article 170. 2018.
- 12 *Seismo: Blood Pressure Monitoring using Built-in Smartphone Accelerometer and Camera*.
 Edward Jay Wang, Junyi Zhu, **Mohit Jain**, Tien-Jui Lee, Elliot Saba, Lama Nachman, Shwetak Patel.
CHI (*ACM Conference on Human Factors in Computing Systems*). 2018.
Honorable Mention Award (Top 5%)
- 11 *Convey: Exploring the Use of a Context View for Chatbots*.
Mohit Jain, Ramachandra Kota, Pratyush Kumar, Shwetak Patel.
CHI (*ACM Conference on Human Factors in Computing Systems*). 2018.
- 10 *End-To-End Audio Replay Attack Detection Using Deep Convolutional Networks with Attention*.
Francis Tom, **Mohit Jain**, Prasenjit Dey.
INTERSPEECH (*Annual Conference of the International Speech Communication Association*). 2018.
- 9 *Opportunistic Sensing with Mic Arrays on Smart Speakers for Distal Interaction and Exercise Tracking*.
Anup Agarwal, **Mohit Jain**, Pratyush Kumar, Shwetak Patel.
ICASSP (*IEEE International Conference on Acoustics, Speech and Signal Processing*). 2018.
- 8 *Evaluating and Informing the Design of Chatbots*.
Mohit Jain, Pratyush Kumar, Ramachandra Kota, Shwetak Patel.
DIS (*ACM Conference on Designing Interactive Systems*). 2018.
- 7 *DigiTouch: Reconfigurable Thumb-to-Finger Interaction for Input and Text Entry for Head-mounted Displays*.
Eric Whitmire, **Mohit Jain**, Divye Jain, Greg Nelson, Ravi Karkar, Shwetak Patel, Mayank Goel.

IMWUT (*PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*) 1, 3, article 113. 2017.

6 Collaborative Energy Conservation in a Microgrid.



Mohit Jain, Harshad Khadilkar, Neha Sengupta, Zainul Charbiwala, Kushan U Tennakoon, Rodzay bin H.A. Wahab, Liyanage C.D. Silva, Deva P. Seetharam.

BuildSys (*ACM International Conference on Systems for Energy-Efficient Built Environments*). 2014.

Best Paper Award; Runner-Up Best Presentation Award

5 UrJar: A Lighting Solution using Discarded Laptop Batteries.

Vikas Chandan, **Mohit Jain**, Harshad Khadilkar, Zainul Charbiwala, Anupam Jain, Sunil Ghai, Rajesh Kunnath, Deva P. Seetharam.

DEV (*ACM Symposium on Computing for Development*). 2014.

4 "We are not in the loop": Resource Wastage and Conservation Attitude of Employees in Indian Workplace.

Mohit Jain, Ankit Agrawal, Sunil K. Ghai, Khai Truong, Deva P. Seetharam.

UbiComp (*ACM International Joint Conference on Pervasive and Ubiquitous Computing*). 2013.

3 Deep Conservation in Urban India and its Implications for the Design of Conservation Technologies.

Yedendra Shrinivasan, **Mohit Jain**, Deva P. Seetharam, Abhishek Choudhary, Elaine M. Huang, Tawanna Dillahunt, Jennifer Mankoff.

CHI (*ACM Conference on Human Factors in Computing Systems*). 2013.

2 User Learning and Performance with Bezel Menus.

Mohit Jain, Ravin Balakrishnan.

CHI (*ACM Conference on Human Factors in Computing Systems*). 2012.

1 Exploring Display Techniques for Mobile Collaborative Learning in Developing Regions.

Mohit Jain, Jeremy Birnholtz, Edward Cutrell, Ravin Balakrishnan.

MobileHCI (*ACM Conference on Human-Computer Interaction with Mobile Devices and Services*). 2011.

SELECTED PATENTS: 16 Filed, 2 Granted

2 10133474. Display Interaction based upon a Distance of Input.

Mohit Jain, Ashok Pon Kumar.

1 9980099. Indoor Location Detection using Ceiling Patterns.

Mohit Jain, Megha Nawhal, Saicharan Duppati, Sampath Dechu.

TEACHING ASSISTANT

Spring 2016 CSE 414: Introduction to Data Management. *University of Washington*.

Fall 2015 CSE 590P: Advanced Topics in Ubiquitous Computing. *University of Washington*.

Fall 2010 CSC 428/CSC 2514: Human Computer Interaction. *University of Toronto*.

Spring 2010 CSC 343: Introduction to Databases. *University of Toronto*.

Fall 2009 CSC 369: Operating Systems. *University of Toronto*.

Spring 2009 IT 215: Systems Software. *DA-IICT*.

Fall 2008 IT 205: Data Structures and Algorithms. *DA-IICT*.

SELECTED VOLUNTEER ACTIVITIES

2019 Program Committee Member. IUI, *ACM International Conference on Intelligent User Interfaces*.

2014 Publicity Chair. UbiComp, *ACM International Joint Conference on Pervasive and Ubiquitous Computing*.

2014 Publicity Chair. ISWC, *International Symposium on Wearable Computers*.

2011-2019 Reviewer. CHI, *ACM Conference on Human Factors in Computing Systems*.

2013-2019 Reviewer. IMWUT, *PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (previously UbiComp)*.

2010 Student Volunteer. CHI, *ACM Conference on Human Factors in Computing Systems*.

SELECTED MEDIA ARTICLES

UrJar **ProSieben**. Featured on the documentary series *Galileo* on ProSieben (Channel 7) in Germany. 2015.

BBC. Old Laptop Batteries could Power Slums, IBM says. Dec, 2014.

MIT Technology Review. Discarded Laptop Batteries Keep the Lights On. Dec 2014.

IEEE Spectrum. Turning E-Waste into Light. Dec 2014.

SlashDot. Using Discarded Laptop Batteries To Power Lights. Dec 2014.

The Register. IBM Research wants laptop batteries to retire and slum it. Dec 2014.

The Economic Times. Old laptop batteries could power slums in India: Study. Dec 2014.

India Times. Jugaad! Read What These Guys Did With Discarded Batteries. Jan 2015.

NDTV. IBM Researchers Use Dumped Laptop Batteries to Create Battery Packs. Dec 2014.

Business Today. Trashed laptop batteries to power homes. Dec 2014.

DISHA **Microsoft Blog**. Microsoft Announces Imagine Cup 2009 Worldwide Winners. July 2009.