MOHIT JAIN

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PROFESSIONAL EXPERIENCE

INDUSTRY EXPERIENCE

2019-Present   Microsoft Research, India
Principal Researcher, Technology and Empowerment (TEM)

2012-2019   IBM Research, India
Senior Research Engineer, Cognitive IoT

2011-2012   Amazon, USA
Software Development Engineer, Digital Videogames

ACADEMIC EXPERIENCE

2015-2019   University of Washington, USA
Graduate Research Assistant, UbiComp Lab

2009-2011   University of Toronto, Canada
Graduate Research Assistant, Digital Graphics Project Lab

INTERNSHIP EXPERIENCE

Summer 2011   HP Labs, India
Research Intern, Mobile and Immersive Experience Lab
Advisor: Dr. Sriganesh Madhvanath

Spring 2011   Microsoft Research, India
Research Intern, Technology for Emerging Markets (TEM) team
Advisor: Dr. Indrani Medhi, Aishwarya Ratan, Dr. Edward Cutrell

Summer 2010   Microsoft Research, India
Visiting Researcher, Technology for Emerging Markets (TEM) team
Advisor: Dr. Edward Cutrell

Fall 2009   Greenbelt Foundation, Canada
Interface Designer

Summer 2007   University of California, Berkeley and Microsoft Research, India
Software Developer Intern, Technology for Emerging Markets (TEM) team
Advisor: Dr. Joyojeet Pal, Udai Pawar, Sukumar Anikar, Dr. Kentaro Toyama

EDUCATION

2015-2019   Ph.D., Computer Science & Engineering, University of Washington, USA
GPA: 3.94/4.0
Advisor: Dr. Shwetak Patel (*Area*: Ubiquitous Computing)
Thesis: Making Chatbots More Transparent and Applicable to New Demographics

2009-2011   Master of Science, Computer Science, University of Toronto, Canada
GPA: 4.0/4.0
Advisor: Dr. Ravin Balakrishnan (*Area*: Human-Computer Interaction)
Thesis: User Learning and Performance with Bezel Menus

2005-2009   Bachelor of Technology, Information & Communication Technology, Dhirubhai Ambani Institute of ICT (DA-IICT), India
GPA: 9.61/10 (**Bronze Medalist**)

HONORS, AWARDS & GRANTS

2023   **Accessibility Award** at Springer INTERACT 2023 for the Employed DHH study [C44].

2022   **Best Subject Paper** at AIOC 2022 for SmartKC [C38, J5].
Best Paper of Session at AIOC 2022 for SmartKC [C38, J5].
Third place in Hack for Society (Executive Challenge) and third place in Hack 2 Enable (Special Topic Challenge) at **Microsoft Hackathon** for the project: 'Planting the SEEDS: Scalable Educational Experiences with Digital Scaffolding'.

2021   **Honorable Mention Award** (Top 5%) at ACM CSCW for Infrastructuring Telehealth [J3].
Methods Recognition Award at ACM CSCW for Turn2Earn [J4].
Honorable Mention Award at Microsoft Global Hackathon for WhatsInMyReport project in the Hack Health category.
Project VICT – Computational Thinking for Persons with Visual Impairment [C31, C32, C35] won **The Jury Commendation Certificate** in the 19th FICCI Corporate Social Responsibility Award.

2019   IBM Fourth Patent Plateau.

2018   IBM **Outstanding Equity Award** (awarded to <0.1% of IBMers).
Honorable Mention Award (Top 5%) at ACM CHI for Seismo [C22].
Aegis Graham Bell Award (Category: Innovation in IoT) for my team's work in Agribusiness.
IBM 'A-level Accomplishment' Award (Category: Customer Offering) for Utility Innovations to Embrace Sustainability and Climate Change.
IBM Third Patent Plateau.

2017   Winner of **DFS Tech Chatbots Challenge** 2017, award of US$20,000 [J2].
Young Researcher attendee at the **Heidelberg Laureate Forum**.
IBM 'A Level Accomplishment' Award for Efficient Integration of non-conventional Energy Sources in Electric and Thermal Grids [C18].
IBM Volunteer Award for being part of the IBM Research India Internship team.
IBM Second Patent Plateau.

2016   IBM '**Outstanding Technical Achievement Award**' for UrJar [C11, W7].
IBM '**Outstanding Technical Achievement Award**' for contributions to User Centric Demand Management [W6, C12, C14].
IBM First Patent Plateau.

2015   IBM '**O Level Accomplishment**' Award (Category: Customer Offering) for Smarter Energy Offering.
IBM '**Research Division Award**' for Energy Efficiency in Brunei [C12].
IBM 'A Level Accomplishment' Award (Category: Image) for UrJar [C11, W7].
IBM 'A Level Accomplishment' Award (Category: Science) for User-Centric Demand Management [W6, C12, C14].
IBM 'A Level Accomplishment' Award (Category: Accelerated Market Introduction) for Analytics and Applications for Energy and Utility.
Runner-up at Smarter Energy Research Institute (SERI) conference organized by IBM.
University of Washington graduate scholarship.

2014   **Best Paper Award** at BuildSys for Collaborative Energy Conservation [C12].
Runner-up Best Presentation Award at BuildSys for Collaborative Energy Conservation [C12].
IBM 'A Level Accomplishment' Award (Category: Client Success) for Efficient Energy Generation and Consumption in Brunei [C12].

IBM 'A Level Accomplishment' Award (Category: Science) for Technology for Education (IDEAL) Project [C10].

2009 **Wolfond Fellowship**.
Won MultiPoint Education Award in **Microsoft Imagine Cup** World Finals, Egypt.
Second runner-up in Microsoft Imagine Cup National Finals (Software Design), India.
Travel scholarship to attend ACM/IEEE ICTD conference.
University of Toronto graduate scholarship (2009-2011).
Bronze medal for securing 3rd rank in a class of 240 students at DA-IICT.

2008 Won TechMarket, a white paper presentation competition, at DA-IICT.

2007 Won **IBM INVITE**, a software design competition.

PEER-REVIEWED JOURNAL PUBLICATIONS

2023 J8 *"Is it even giving the correct reading or not?": How Trust and Relationships Mediate Blood Pressure Management in India.*
Nimisha Karnatak, Brooke Loughrin, Tiffany Amy Kuo, Odeline Mateu-Silvernail, Indrani Medhi Thies, William Thies, **Mohit Jain**.
TOCHI *(ACM Transactions on Computer-Human Interaction)* 30, 6 article 90.

J7 *Understanding the Technology-Mediated Home Phlebotomy Ecosystem in India*
Meghna Gupta*, Nimisha Karnatak*, **Mohit Jain**. [* equal contributors]
CSCW *(PACM HCI).*

2022 J6 *Towards Automating Retinoscopy for Refractive Error Diagnosis.*
Aditya Aggarwal, Siddhartha Gairola, Uddeshya Upadhyay, Akshay P. Vasishta, Diwakar Rao, Aditya Goyal, Kaushik Murali, Nipun Kwatra, **Mohit Jain**.
IMWUT *(PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies)* 6, 3 article 97.

2021 J5 *SmartKC: Smartphone-based Corneal Topographer for Keratoconus Detection.*
Siddhartha Gairola, Murtuza Bohra, Nadeem Shaheer, Navya Jayaprakash, Pallavi Joshi, Anand Balasubramaniam, Kaushik Murali, Nipun Kwatra, **Mohit Jain**.
IMWUT *(PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies)* 5, 4, article 155.

J4 *Understanding Driver-Passenger Interactions in Vehicular Crowdsensing.*
🏅 Dhruv Agarwal, Srishti Agarwal, Vidur Singh, Rohita Kochupillai, Rosemary Pierce-Messick, Srinivasan Iyengar, **Mohit Jain**.
CSCW *(PACM HCI)* 5, 2 article 482.
Methods Recognition Award

J3 *Infrastructuring Telehealth in (In)Formal Patient-Doctor Contexts.*
🏅 Karthik S. Bhat, **Mohit Jain**, Neha Kumar.
CSCW *(PACM HCI)* 5, 2, article 323.
Honorable Mention Award (Top 5%)

2019 J2 *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.

2017 J1 *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.

PEER-REVIEWED CONFERENCE PUBLICATIONS

| 2023 | C45 | *Jod: Examining the Design and Implementation of a Videoconferencing Platform for Mixed Hearing Groups.* |

2023   C45   *Jod: Examining the Design and Implementation of a Videoconferencing Platform for Mixed Hearing Groups.*
Anant Mittal, Meghna Gupta, Roshni Poddar, Tarini Naik, SeethaLakshmi Kuppuraj, James Fogarty, Pratyush Kumar, **Mohit Jain**.
ASSETS *(ACM SIGACCESS Conference on Computers and Accessibility)*.

     C44   *Challenges faced by the Employed Indian DHH Community.*
Advaith Sridhar, Roshni Poddar, **Mohit Jain**, Pratyush Kumar.
INTERACT *(Springer IFIP TC13 International Conference on Human-Computer Interaction)*.
Accessibility Award

     C43   *Towards Intermediated Workflows for Hybrid Telemedicine.*
Karthik S. Bhat, Neha Kumar, Karthik Shamanna, Nipun Kwatra, **Mohit Jain**.
CHI *(ACM Conference on Human Factors in Computing Systems)*.

     C42   *Constraints and Workarounds to Support Clinical Consultations in Synchronous Text-based Platforms.*
Brenna Li, Tetyana Skoropad, Puneet Seth, **Mohit Jain**, Khai Truong, Alex Mariakakis.
CHI *(ACM Conference on Human Factors in Computing Systems)*.

     C41   *Understanding Journalists' Workflows in News Curation.*
Shubham Atreja, Shruthi Srinath, **Mohit Jain**, Joyojeet Pal.
CHI *(ACM Conference on Human Factors in Computing Systems)*.

2022   C40   *From the Margins to the Centre: Defining New Mission and Vision for HCI Research in South Asia.*
Pranjal Jain, Samia Ibtasam, Sumita Sharma, Nilavra Bhattacharya, Anupriya Tuli, Dilrukshi Gamage, Dhruv Jain, Rucha Tulaskar, Priyank Chandra, Lubna Razaq, Rahat Jahangir Rony, Deepak Ranjan Padhi, **Mohit Jain**, Suleman Shahid, Nova Ahmed, Devanuj Kanta Balkrishan, Pushpendra Singh.
CHI EA *(Extended Abstracts of the ACM CHI Conference on Human Factors in Computing Systems)*.

     C39   *Keratoconus Classifier for Smartphone-based Corneal Topographer.*
Siddhartha Gairola, Pallavi Joshi, Anand Balasubramaniam, Kaushik Murali, Nipun Kwatra, **Mohit Jain**.
EMBC *(IEEE International Engineering in Medicine and Biology Conference)*.

     C38   *Learning Curve in the Construct of Smartphone-based Keratoscope Prototype for KCN Screening.*
Pallavi Joshi, Anand Balasubramaniam, Kaushik Murali, Siddhartha Gairola. *(Note: A paper can have up to 4 authors in total).*
AIOC *(Annual Conference of All India Ophthalmological Society)*.

     C37   *Language Patterns and Behaviour of the Peer Supporters in Multilingual Healthcare Conversational Forums.*
Ishani Mondal, Kalika Bali, **Mohit Jain**, Monojit Choudhury, Jacki O'Neill, Millicent Ochieng, Kagnoya Awori, Keshet Ronen.
LREC *(ELRA Language Resources and Evaluation Conference)*.

     C36   *Global Readiness of Language Technology for Healthcare: What Would It Take to Combat the Next Pandemic?*
Ishani Mondal, Kabir Ahuja, **Mohit Jain**, Jacki O'Neill, Kalika Bali, Monojit Choudhury.
COLING *(International Conference on Computational Linguistics)*.

2021   C35   *VStroll: An Audio-based Virtual Exploration to Encourage Walking among People with Vision Impairments.*
Gesu India, **Mohit Jain**, Pallav Karya, Nirmalendu Diwakar, Manohar Swaminathan.
ASSETS *(ACM SIGACCESS Conference on Computers and Accessibility)*.

     C34   *Understanding Motivations and Barriers to Exercise Among People with Blindness in India.*
Gesu India, **Mohit Jain**, Manohar Swaminathan.
INTERACT *(Springer IFIP TC13 International Conference on Human-Computer Interaction)*.

C33 *A Linguistic Annotation Framework to Study Interactions in Multilingual Healthcare Conversational Forums.*
Ishani Mondal, Kalika Bali, **Mohit Jain**, Monojit Choudhury, Ashish Sharma, Evans Gitau, Jacki O' Neill, Kagonya Awori, Sarah Gitau.
LAW, EMNLP *(Linguistic Annotation Workshop at Empirical Methods in Natural Language Processing)*.

C32 *Smartphone Usage by Expert Blind Users.*
Mohit Jain, Nirmalendu Diwakar, Manohar Swaminathan.
CHI *(ACM Conference on Human Factors in Computing Systems)*.

C31 *Teachers' Perceptions around Digital Games for Children in Low-resource Schools for the Blind.*
Gesu India, Vidhya Y, Aishwarya O, Nirmalendu Diwakar, **Mohit Jain**, Aditya Vashistha, Manohar Swaminathan.
CHI *(ACM Conference on Human Factors in Computing Systems)*.

C30 *RespireNet: A Deep Neural Network for Accurately Detecting Abnormal Lung Sounds in Limited Data Setting.*
Siddhartha Gairola, Francis Tom, Nipun Kwatra, **Mohit Jain**.
EMBC *(IEEE International Engineering in Medicine and Biology Conference)*.

C29 *Height Estimation of Children under Five Years Using Depth Images.*
Anusua Trivedi, **Mohit Jain**, Nikhil Kumar Gupta, Markus Hinsche, Prashant Singh, Markus Matiaschek, Tristan Behrens, Mirco Militeri, Cameron Birge, Shivangi Kaushik, Archisman Mohapatra, Rita Chatterjee, Rahul Dodhia, Juan Lavista Ferres
EMBC *(IEEE International Engineering in Medicine and Biology Conference)*.

2020 **C28** *Gaze-based Screening of Autistic Traits for Adolescents and Young Adults using Prosaic Videos.*
Karan Ahuja, Abhishek Bose, **Mohit Jain**, Kuntal Dey, Anil Joshi, Krishnaveni Achary, Blessin Varkey, Chris Harrison, Mayank Goel.
COMPASS *(ACM SIGCAS Conference on Computing and Sustainable Societies)*.

2019 **C27** *Automatic Generation and Evaluation of Usable and Secure Audio reCAPTCHA.*
Mohit Jain, Rohun Tripathi, Ishita Bhansali, Pratyush Kumar.
ASSETS *(ACM SIGACCESS International Conference on Computers and Accessibility)*.

C26 *Adversarial Adaptation of Scene Graph Models for Understanding Civic Issues.*
Shanu Kumar, Shubham Atreja, Anjali Singh, **Mohit Jain**.
WWW *(International World Wide Web Conference)*.

C25 *Resilient Chatbots: Repair Strategy Preferences for Conversational Breakdowns.*
Zahra Ashktorab*, **Mohit Jain***, Q. Vera Liao*, Justin D. Weisz. [* equal contributors]
CHI *(ACM Conference on Human Factors in Computing Systems)*.

C24 *BigBlueBot: Teaching Strategies for Successful Human-Agent Interactions.*
Justin D. Weisz, **Mohit Jain**, Narendra Nath Joshi, James Johnson, Ingrid Lange.
IUI *(ACM International Conference on Intelligent User Interfaces)*.

C23 *Automatic Generation of Leveled Visual Assessments for Young Learners.*
Anjali Singh, Ruhi S. Mittal, Shubham Atreja, Mourvi Sharma, Seema Nagar, Prasenjit Dey, **Mohit Jain**.
EAAI *(Educational Advances in Artificial Intelligence)*.

2018 **C22** *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)*.
Honorable Mention Award (Top 5%)

C21 *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*).

C20 *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)*.

C19 MobiCeil: Cost-Free Indoor Localizer for Office Buildings.
Mohit Jain, Megha Nawhal, Saicharan Duppati, Sampath Dechu.
MobileHCI *(ACM Conference on Human-Computer Interaction with Mobile Devices and Services)*.

C18 *Reducing Energy Consumption for Space Heating by Changing Zone Temperature: Pilot Trial in Luleå, Sweden.*
Kumar Saurav, **Mohit Jain**, Sambaran Bandhyopahyay.
eEnergy *(ACM International Conference on Future Energy Systems)*.

C17 *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)*.

C16 *Evaluating and Informing the Design of Chatbots.*
Mohit Jain, Pratyush Kumar, Ramachandra Kota, Shwetak Patel.
DIS *(ACM Conference on Designing Interactive Systems)*.

2016 **C15** *Software-only Occupancy Inference in a Workplace.*
Mohit Jain, Vikas Chandan, Ashok Pon Kumar, Vijay Arya, Sridhar R, Babitha Ramesh.
ISGT NA *(IEEE Conference on Innovative Smart Grid Technologies NA)*.

2015 **C14** *Methodologies for Effective Demand Response Messaging.*
Mohit Jain, Vikas Chandan, Marilena Minou, George Thanos, Tri K Wijaya, Achim Lindt, Arne Gylling.
SmartGridComm *(IEEE International Conference on Communications, Control, and Computing Technologies for Smart Grid)*.

C13 Comparing Energy Feedback Techniques for Dormitory Students in India.
Mohit Jain, Deepika Chhabra, Amarjeet Singh.
BuildSys *(ACM International Conference on Systems for Energy-Efficient Built Environments)*.

2014 **C12** *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)*.
Best Paper Award
Runner-Up Best Presentation Award

C11 *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)*.

C10 *EduPaL: Enabling Blended Learning in Resource Constrained Environments.*
Malolan Chetlur, Ashay Tamhane, Vinay Kumar Reddy, Bikram Sengupta, **Mohit Jain**, Pongsakorn Sukjunnimit, Ramrao Wagh.
DEV *(ACM Symposium on Computing for Development)*.

C9 *Energy Usage Attitudes of Urban India.*
Mohit Jain, Deepika Chhabra, Jen Mankoff, Amarjeet Singh.
ICT4S *(International Conference on ICT for Sustainability)*.

2013 **C8** *"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)*.

C7   *Comparison of Phone-based Distal Pointing Techniques for Point-Select Tasks.*
Mohit Jain, Andy Cockburn, Sriganesh Madhvanath.
INTERACT *(Springer IFIP TC13 International Conference on Human-Computer Interaction)*.

C6   *Evaluating the Effect of Phrase Set in Hindi Text Entry.*
Mohit Jain, Khushboo Tekchandani, Khai Truong.
INTERACT *(Springer IFIP TC13 International Conference on Human-Computer Interaction)*.

C5   *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)*.

2012   C4   *Combating Rural Child Malnutrition through Inexpensive Mobile Phones.*
Indrani Medhi, **Mohit Jain**, Anuj Tewari, Mohini Bhavsar, Michael Matheke-Fischer, Edward Cutrell.
NordiCHI *(ACM Nordic Conference on Human-Computer Interaction)*.

C3   *User Learning and Performance with Bezel Menus.*
Mohit Jain, Ravin Balakrishnan.
CHI *(ACM Conference on Human Factors in Computing Systems)*.

2011   C2   *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)*.

2010   C1   *DISHA: Multiple Mice in Narrative Content-based Computer Aided Learning for Children.*
Aakar Gupta, Praveen Shekhar, Navkar Samdaria, **Mohit Jain**, Joyojeet Pal.
IDID *(IFIP TC13 SIG on Interaction Design for International Development)*.

ARXIV PAPERS (NOT PEER-REVIEWED)

2023   A2   *PwR: Exploring the Role of Representations in Conversational Programming.*
Pradyumna YM, Vinod Ganesan, Dinesh Kumar Arumugam, Meghna Gupta, Nischith Shadagopan, Tanay Dixit, Sameer Segal, Pratyush Kumar, **Mohit Jain**, Sriram Rajamani.

A1   *"Can't Take the Pressure?": Examining the Challenges of Blood Pressure Estimation via Pulse Wave Analysis.*
Suril Mehta, Nipun Kwatra, **Mohit Jain**, Daniel McDuff.

PEER-REVIEWED POSTERS, DEMOS & WORKSHOPS

2023   W9   *SignIt! An Android Game for Sign Bilingual Play.*
Roshni Poddar, Pradyumna YM, Divya Prabha Jayakumar, Tarini Naik, Punyat Tripathi, Nabeel TP, Hemanth Reddy Yeddula, Pratyush Kumar, **Mohit Jain**, Manohar Swaminathan.
ASSETS *(ACM SIGACCESS Conference on Computers and Accessibility)*: Poster.

2018   W8   *BigBlueBot: A Demonstration of How to Detect Egregious Conversations with Chatbots.*
Casey Dugan, Justin D Weisz, Narendra Nath Joshi, Ingrid Lange, James Johnson, **Mohit Jain**, Werner Geyer.
NeurIPS *(Conference on Neural Information Processing Systems)*: Demo.

2015   W7   *UrJar: A device to address energy poverty using e-waste.*
Vikas Chandan, **Mohit Jain**, Harshad Khadilkar, Zainul Charbiwala, Anupam Jain, Sunil Ghai, Rajesh Kunnath, Deva P. Seetharam.
eEnergy *(ACM International Conference on Future Energy Systems)*: Demo.

2014	W6	*Evaluating Demand Response Programs: Getting the Key Performance Indicators Right.* Marilena Minou, George Thanos, Matteo Vasirani, Tanuja Ganu, **Mohit Jain**, Arne Gylling. eEnergy *(ACM International Conference on Future Energy Systems)*: International Workshop on Demand Response.
2013	W5	*Replicating Residential Sustainability Study in Urban India.* **Mohit Jain**, M., Yedendra Shrinivasan, Tawanna Dillahunt. CHI *(ACM Conference on Human Factors in Computing Systems)*: RepliCHI Workshop.
2012	W4	*The Fate of a Digital Slate: Unexpected Issues with Deployment in Rural India.* Indrani Medhi, Anuj Tewari, **Mohit Jain**, Edward Cutrell. UXMag *(User Experience Magazine)*, 11, 2.
2009	W3	*Approaches to Formal Verification of Security Protocols.* Suvansh Lal, **Mohit Jain**, Vikrant Chaplot. IMY-CRSI *National Workshop on Cryptology*.
	W2	*DISHA: DISease and Health Awareness for Children on Multiple Input Devices.* **Mohit Jain**, Aakar Gupta, Navkar Samdaria, Praveen Shekhar, Joyojeet Pal. ICTD *(IEEE/ACM International Conference on Information and Communication Technologies and Development)*: Poster.
2008	W1	*From Pilot to Practice: Creating Multiple-Input Multimedia Content for Real-World Deployment.* Joyojeet Pal, Udai Pawar, Apurva Joshi, **Mohit Jain**, Sai Gopal Thota, Sai Teja, Sukumar Anikar. IUI *(ACM International Conference on Intelligent User Interfaces)*: International Workshop on Intelligent User Interfaces for Developing Regions (IUI4DR).

PATENTS

2019	P19	P201904537US01. *System and Method to Approximate Farm Level Yield Using Marketplace Arrival Data.* Smitkumar N Marvaniya, **Mohit Jain**, Sushain Pandit, Wesley Richards, Dean Daskalantonakis, Jagabondhu Hazra.
	P18	US20210048938A1. *Visual Hierarchy Design Governed User Interface Modification via Augmented Reality.* Willie Scott, Charu D. Pandhi, **Mohit Jain**, Kuntal Dey.
	P17	US2020372569A1. *System and Method for Chatbot Conversation Federation using Real-Time Auctioning.* Kuntal Dey, **Mohit Jain**, Kaushik Lahiri, Sarbajit K. Rakshit.
2018	P16	US10782777B2. *Real-Time Alteration of Standard Video and Immersive Video for Virtual Reality.* **Mohit Jain**, Kuntal Dey, Willie Scott, Charu D. Pandhi. GRANTED
	P15	US20200273080A1. *Product Usage Identification and Recommendation Provision.* Sampath Dechu, **Mohit Jain**, Amrita Saha.
	P14	US20200114206A1. *Exercise Monitoring and Coaching using Audio-only Devices.* **Mohit Jain**, Anup Agarwal, Pratyush Kumar.
	P13	US10928917B2. *Multiple User Interaction with Audio Devices using Speech and Gestures.* **Mohit Jain**, Anup Agarwal, Pratyush Kumar. GRANTED
2017	P12	US10614815B2. *Conversational Challenge-Response System for Enhanced Security in Voice Only Devices.*

Mohit Jain, Pratyush Kumar.
GRANTED

P11 US10608965B2. *Augmented Conversational Agent.*
Kuntal Dey, **Mohit Jain**, Pratyush Kumar.
GRANTED

P10 US10664338B2. *System and Method for Root Cause Analysis in Large Scale Data Curation Flows using Provenance.*
Hima P. Karnam, Manish Kesarwani, Salil Joshi, **Mohit Jain**, Sameep Mehta.
GRANTED

P9 US20190163807A1. *Feature Vector Profile Generation for Interviews.*
Mohit Jain, Ashok Pon Kumar, Pratyush Kumar, Ramachandra Kota.

P8 US20180295071A1. *Adaptive Communications Display Window.*
Mohit Jain, Pratyush Kumar, Ramachandra Kota.

P7 US10810647B2. *Hybrid Virtual and Physical Jewelry Shopping Experience.*
Ashok Pon Kumar, Pratyush Kumar, Anshul B. Shah, **Mohit Jain**, Megha Nawhal, Gyanendra Sharma, Amith Singhee.
GRANTED

2016 P6 UW48021.01US1. *Smartphone Based Blood Pressure Measurement using Cameras and Microphone.*
Edward Wang, **Mohit Jain**, Shwetak Patel.

P5 US20170364229A1. *Display Interaction based upon a Distance of Input.*
Mohit Jain, Ashok Pon Kumar.
GRANTED

P4 US10598708B2. *Identifying and Prioritizing Errors in Connectivity Models of Distribution Networks for Efficient Field Inspections.*
Ramachandra Kota, Sambaran Bandyopadhyay, Rajendu Mitra, **Mohit Jain**, Vijay Arya.
GRANTED

2015 P3 US9980099B2. *Indoor Location Detection using Ceiling Patterns*.
Mohit Jain, Megha Nawhal, Saicharan Duppati, Sampath Dechu.
GRANTED

P2 US10379639B2. *Single-hand, Full-screen Interaction on a Mobile Device.*
Mohit Jain, Ashok Pon Kumar, Zainul M. Charbiwala.
GRANTED

2013 P1 WO2013157013. *Selection of User Interface Elements of a Graphical User Interface.*
Mohit Jain, Sriganesh Madhvanath, Vimal Sharma.

INVITED TALKS

2023 T24 Myths and Facts about ChatGPT – Looking into the Future
VitreoRetinal Society of India (VRSI) webinar (AI & Chatbots Impacting Future)

T23 AI and Global Development
Keynote at ACM CHI workshop (Advancing HCI Research and Education within and across South Asia)

T22 Evolution of SmartKC
Keynote at AIOC (Annual Conference of All India Ophthalmological Society) [by Dr. Pallavi Joshi]

T21 Programming by Conversation
People+AI event by Ekstep

| 2022 | T20 | Low-Cost Diagnostics (focusing on SmartKC) |
| | | *NamasteHCI, IIT Bombay* |

| | T19 | Low-Cost Diagnostics (focusing on SmartKC) |
| | | *FOSCAL - UNAB and Autonomous University of Bucaramanga, Colombia* |

| 2021 | T18 | FarmChat: A Conversational Agent to Answer Farmer Queries |
| | | *18th International Conference on Natural Language Processing, ICON 2021* (Invited Speaker) |

| | T17 | Smartphone-based Technological Solutions for the Global South |
| | | *IIT Gandhinagar* (Sabarmati Seminar Series) |

| | T16 | Smartphone-based Diagnostic Solutions |
| | | *IIT Kanpur* (Students Research Convention) |

| | T15 | Low-Cost Smartphone-based Diagnostic Solutions |
| | | *IIT Jammu* (AI in healthcare workshop) |

| | T14 | Teachers' Perceptions around Digital Games for Children in Low-resource Schools for the Blind |
| | | *IndiaHCI Best of CHI 2021 track* (presented by Gesu India) |

| 2020 | T13 | FarmChat: A Conversational Agent to Answer Farmer Queries |
| | | *IndiaHCI Out of India track* |

| 2019 | T13 | Smartphone-based Technological Solutions for the (Mobile) Developing World |
| | | *SIGCHI Summer School on Expanding the Horizons of Human-Centered AI* |

| | T12 | Smartphone-based Technological Solutions for the (Mobile) Developing World |
| | | *IIIT-Delhi* |

| | T11 | Smartphone-based Technological Solutions for the (Mobile) Developing World |
| | | *Microsoft Research India* |

| | T10 | Technological Solutions for Societal Good |
| | | *Microsoft – AI for Good* |

| | T9 | Extending Interactivity, Accessibility and Security of Conversational Systems |
| | | *FX Palo Alto Laboratory (FXPAL)* |

| 2018 | T8 | Building Empathy with Chatbots |
| | | *IBM AI Systems Day* |

| 2017 | T7 | Build a Chatbot in 10-minutes |
| | | *ad:tech* |

| 2016 | T6 | Cognitive Shopping using Watson Conversation Services |
| | | *IBM Digital Leaders Connect* |

| | T5 | Cognitive Shopping using Watson Conversation Services |
| | | *IBM Cloud Innovation Forum* |

| 2013 | T4 | Persuade to Conserve |
| | | *École Polytechnique Fédérale de Lausanne (EPFL), Switzerland* |

| | T3 | Persuade to Conserve |
| | | *IBM Zurich Research Lab* |

| | T2 | Insights into Paper-based Record Management System |
| | | *Microsoft Research India* |

| 2012 | T1 | Energy Efficiency and Conservation |
| | | *IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)* |

TEACHING ASSISTANT EXPERIENCE

Spring 2016 CSE 414: Introduction to Data Management
Instructor: Dr. Dan Weld, University of Washington

Fall 2015 CSE 590P: Advanced Topics in Ubiquitous Computing
Instructor: Dr. Mayank Goel, University of Washington

Fall 2010 CSC 428/CSC 2514: Human Computer Interaction
Instructor: Dr. Khai Truong, University of Toronto

Spring 2010 CSC 343: Introduction to Databases
Instructor: Dr. Diane Horton, University of Toronto

Fall 2009 CSC 369: Operating Systems
Instructor: Dr. Karen Reid, University of Toronto

Spring 2009 IT 215: Systems Software
Instructor: Dr. Anish Mathuria, DA-IICT

Fall 2008 IT 205: Data Structures and Algorithms
Instructor: Dr. Ashok Amin, DA-IICT

VOLUNTARY ACTIVITIES

PROGRAM COMMITTEE MEMBER

2024 CHI, *ACM Conference on Human Factors in Computing Systems* (Health track)
IUI, *ACM International Conference on Intelligent User Interfaces*

2023 IUI, *ACM International Conference on Intelligent User Interfaces*
IndiaHCI

2022 IUI, *ACM International Conference on Intelligent User Interfaces*
ICTD, *International Conference on Information and Communication Technologies and Development*
CUI, *Conference on Conversational User Interfaces*

2021 CHI, *ACM Conference on Human Factors in Computing Systems* (Health track)
IUI, *ACM International Conference on Intelligent User Interfaces*
CUI, *Conference on Conversational User Interfaces*
IndiaHCI, *Indian Conference Series on HCI Design and Research*

2020 CHI, *ACM Conference on Human Factors in Computing Systems* (Specific Application Areas track)
IUI, *ACM International Conference on Intelligent User Interfaces*
ICTD, *International Conference on Information and Communication Technologies and Development*
COMPASS, *ACM SIGCAS Conference on Computing and Sustainable Societies* (Energy, IOT and Smart Cities track)

2019 IUI, *ACM International Conference on Intelligent User Interfaces*

WORKSHOP ORGANIZER

2022 India's Emerging Digital Health Ecosystem.
Project Green Workshop, Microsoft

2021 From the Margins to the Centre: Defining New Mission and Vision for HCI Researchers in South Asia.
CHI, *ACM Conference on Human Factors in Computing Systems*
Link*: https://hci4south.asia/chi21-workshop/*

CHAIR

2024	**Paper Co-chair**, CHIWORK, *Annual Meeting on Human-Computer Interaction for Work*
2021	**Short Paper Co-chair**, IndiaHCI, *Indian Conference Series on HCI Design and Research*
2014	**Publicity Chair**, UbiComp, *ACM International Joint Conference on Pervasive and Ubiquitous Computing*
2014	**Publicity Chair**, ISWC, *International Symposium on Wearable Computers*

REVIEWER

2011-2024	CHI, *ACM Conference on Human Factors in Computing Systems*
2013-2023	IMWUT, *PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (previously UbiComp)*
2015, 19-24	IUI, *ACM International Conference on Intelligent User Interfaces*
2012, 19-21	DIS, *ACM Conference on Designing Interactive Systems*
2022	IJHCI, *International Journal of Human-Computer Interaction*
2021, 2023	TOCHI*, ACM Transactions on Computer-Human Interaction*
2021	TSC*, ACM Transactions on Social Computing*
2021	TACCESS*, ACM Transactions on Accessible Computing*
2021	CUI*, Conference on Conversational User Interfaces*
2021	COMSNETS*, Conference on COMmunication Systems and NETworkS*
2019	UIST, *ACM User Interface Software and Technology*
2018	IDC, *Interaction Design & Children*
2018	ISS, *ACM Interactive Surfaces and Spaces*
2015	JETR, *Journal of Engineering and Technology Research*
2014	CSCW, *ACM Conference on Computer-Supported Cooperative Work and Social Computing*
2011-2012	MobileHCI, *ACM Conference on Human-Computer Interaction with Mobile Devices and Services*
2012	APCHI, *Asia Pacific Conference on Computer Human Interaction*

STUDENT VOLUNTEER

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

SERVICE at IBM and Microsoft

2022-24	Member of the DIB (Diversity, Inclusion and Belonging) Committee, Microsoft Research India.
2021-24	Member of the FTE Hiring Committee, Microsoft Research India.
2020-2021	Lab Sabha Czar, Microsoft Research India.
2019	External Recognition Lead, IBM Research India.
2018-2019	Patent Reviewer and Evaluator, IBM Global.
2018-2019	HCI PIC (Professional Interest Communities) Chair, IBM Research India.
2016-2018	Internship Coordinator, IBM Research India.
2012-2019	Volunteered at IBM demo booths in conferences (CHI 2018, COMSNETS 2018, ANTS 2012, etc.)

MISCELLANEOUS

2021-22	External Expert from Industry at the Departmental Board of Studies, Dept. of CSE, NIT Delhi.
2013-2014	Teaching children how to use computers in rural Bangalore Government schools.
2012-2013	Teaching English to children in rural Bangalore Government schools.

SELECTED MEDIA

Agriculture [P19]	**The Hindu**. Karnataka tomato growers to get crop, price forecasts from IBM using AI, ML. Feb 2019. **Business Standard.** Towards farms of the future: How AI is revolutionising agriculture in India. Mar 2019. **IBM Newsroom**. NSTDA and IBM Research Use AI to Transform Sugarcane Farming in Thailand with Mitr Phol. Mar 2019.
UrJar [C11, W7]	**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.
Live Mint. India's digital transformation needs innovation. Mar 2015.
Hindustan Times. Trashed laptop batteries to power homes. 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.
BGR. Discarded laptop batteries to create an emergency lighting system. Dec 2014.
Newsweek. Old Laptop Batteries Could Bring Power to India's Slums. Dec 2014.
Uber Gizmo. E-Waste Recycled, Delivers Power In Second Life. Dec 2014.
Business Today. Trashed laptop batteries to power homes. Dec 2014.

DISHA   **Microsoft Blog**. Microsoft Announces Imagine Cup 2009 Worldwide Winners. July 2009.
[C1, W2]

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