

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

- 2024 **Best Paper of Session** (Community Ophthalmology) at AIOC 2024 for CataractBot [C47, A2].
- 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

- 2024 J12 *Examining the Challenges of Blood Pressure Estimation via Photoplethysmogram.*
Suril Mehta, Nipun Kwatra, **Mohit Jain**, Daniel McDuff.
Nature Scientific Reports, 14, article 18318.
- J11 *DEDetector: Smartphone-Based Noninvasive Screening of Dry Eye Disease.*
Vaibhav Ganatra, Soumyasis Gun, Pallavi Joshi, Anand Balasubramaniam, Kaushik Murali, Nipun Kwatra, **Mohit Jain**.
IMWUT (*PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*) 8, 4 article 190.
- J10 *Artificial Intelligence in Cataract Surgery: A Systematic Review.*
Simon Muller, **Mohit Jain**, Bhuvan Sachdeva, Payal N. Shah, Frank G. Holz, Robert P. Finger, Kaushik Murali, Maximilian W. M. Wintergerst, Thomas Schultz.
TVST (*Translational Vision Science & Technology, ARVO Journal*) 13, 4 article 20.
- 2023 J9 *SignIt! An Android game for sign bilingual play that collects labelled sign language data.*
Roshni Poddar, Pradyumna YM, Divya Prabha Jayakumar, Tarini Naik, Punyat Tripathi, Nabeel TP, Hemanth Reddy Yeddula, Pratyush Kumar, **Mohit Jain**, Manohar Swaminathan.
ITU Journal on Future and Evolving Technologies, 4, 4.
- 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.
[Presented at CHI (*ACM Conference on Human Factors in Computing Systems*) 2024]
- J7 *Understanding the Technology-Mediated Home Phlebotomy Ecosystem in India*
Meghna Gupta*, Nimisha Karnatak*, **Mohit Jain**. [* equal contributors]
CSCW (*PACM HCI*) 8, 1 article 144.
- 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

- 2025 C51 *ASHABot: An LLM-Powered Chatbot to Support the Informational Needs of Community Health Workers.*
Pragnya Ramjee, Mehak Chhokar, Bhuvan Sachdeva, Mahendra Meena, Hamid Abdullah, Aditya Vashistha, Ruchit Nagar, **Mohit Jain**.
CHI (*ACM Conference on Human Factors in Computing Systems*).
- C50 *SmartKC++: Improving Performance of Smartphone-Based Corneal Topographers.*
Vaibhav Ganatra, Siddhartha Gairola, Pallavi Joshi, Anand Balasubramaniam, Kaushik Murali, Arivunithi Varadharajan, Bellamkonda Mallikarjuna, Nipun Kwatra, **Mohit Jain**.
WACV (*IEEE/CVF Winter Conference on Applications of Computer Vision*).
- 2024 C49 *Beyond the Waiting Room: Patient's Perspectives on the Conversational Nuances of Pre-Consultation Chatbots.*
Brenna Li, Ofek Gross, Noah Crampton, Mamta Kapoor, Saba Tauseef, **Mohit Jain**, Khai N. Truong, Alex Mariakakis.
CHI (*ACM Conference on Human Factors in Computing Systems*).
- C48 *Breaking the News Barrier: Towards Understanding News Consumption Practices among BVI Individuals in India.*
Peya Mowar, Meghna Gupta, **Mohit Jain**.
ASSETS (*ACM SIGACCESS Conference on Computers and Accessibility*).
- C47 *CataractBot: ChatGPT powered generative AI chatbot to support patients undergoing cataract surgery.*
 Kaushik Murali, **Mohit Jain**, Bhuvan Sachdeva, Pragnya Ramjee, Geeta Fulari.
AIOC (*Annual Conference of All India Ophthalmological Society*): Oral.
Best Paper of Session Award
- C46 *Examining Factors Influencing Technology Integration in Indian Classrooms: A Teachers' Perspective.*
Tarini Naik, Meena Elapulli Shankaranarayanan, Manohar Swaminathan, Kalika Bali, **Mohit Jain**.
COMPASS (*ACM SIGCAS Conference on Computing and Sustainable Societies*).
[Invited to also present in "Out-of-India track" at the IndiaHCI 2024 conference]
- 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.*
 Advait 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*).
Best Paper of Session Award
Best Subject Paper Award

- 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, Kagnoya 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)

- 2025 A4 *HEALTH-PARIKSHA: Assessing RAG Models for Health Chatbots in Real-World Multilingual Settings.*
Varun Gumma, Anandhita Raghunath, **Mohit Jain**, Sunayana Sitaram.
arXiv:2410.13671
- 2024 A3 *Learnings from a Large-Scale Deployment of an LLM-Powered Expert-in-the-Loop Healthcare Chatbot.*
Bhuvan Sachdeva, Pragnya Ramjee, Geeta Fulari, Kaushik Murali, **Mohit Jain**.
arXiv:2409.10354

- A2 *CataractBot: An LLM-Powered Expert-in-the-Loop Chatbot for Cataract Patients.*
Pragnya Ramjee, Bhuvan Sachdeva, Satvik Golechha, Shreyas Kulkarni, Geeta Fulari, Kaushik Murali, **Mohit Jain**.
arXiv:2402.04620
- 2023 A1 *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.
arXiv:2309.09495
[Part of Computational Cybersecurity in Compromised Environments (C3E) Reading list: <https://sos-vo.org/group/c3e/reading2024>]

PEER-REVIEWED POSTERS, DEMOS & WORKSHOPS

- 2025 W11 *Evaluation of an AI-powered Oncology Chatbot for Head and Neck Cancer Patients Undergoing Curative Intent Radiotherapy.*
Salma Shams C, Shirley Lewis, **Mohit Jain**, Pragnya Ramjee, Bhuvan Sachdeva, Rahul Sharma, Umesh Velu, Anshul Singh, Ankita Mehta, Jayashree NP.
NHS and RCR Global AI Conference: Abstract.
- 2024 W10 *Human-AI Interaction for Work.*
Dagstuhl Seminar Report 23452.
- 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.

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

- 2025 T31 DILBot: Doctor-in-the-Loop Bot
MSR India TAB 2025
- T30 Low-cost diagnostics and LLMs in Healthcare
Generative AI: Techniques, Tools, and Applications, NIT Delhi (Invited Speaker)
- 2024 T29 SmartKC: Past, Present, Future
MSR India
- T28 Low-cost diagnostics and Doctor-in-the-Loop Bot
A Collaborative Indo-US Workshop 2024, Harnessing AI for Healthcare Transformation, IIT Hyderabad
- T27 Expert-in-the-Loop Chatbots
Pfizer
- 2023 T26 Low-Cost Diagnostics (focusing on SmartKC)
JBNSTS (Jagadis Bose National Science Talent Search) Talk
- T25 Low-cost diagnostics and LLMs in Healthcare
MEDFuse Event, IIT Gandhinagar
- 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 <i>IndiaHCI Best of CHI 2021 track (presented by Gesu India)</i>
2020	T13	FarmChat: A Conversational Agent to Answer Farmer Queries <i>IndiaHCI Out of India track</i>
2019	T13	Smartphone-based Technological Solutions for the (Mobile) Developing World <i>SIGCHI Summer School on Expanding the Horizons of Human-Centered AI</i>
	T12	Smartphone-based Technological Solutions for the (Mobile) Developing World <i>IIIT-Delhi</i>
	T11	Smartphone-based Technological Solutions for the (Mobile) Developing World <i>Microsoft Research India</i>
	T10	Technological Solutions for Societal Good <i>Microsoft – AI for Good</i>
	T9	Extending Interactivity, Accessibility and Security of Conversational Systems <i>FX Palo Alto Laboratory (FXPAL)</i>
2018	T8	Building Empathy with Chatbots <i>IBM AI Systems Day</i>
2017	T7	Build a Chatbot in 10-minutes <i>ad:tech</i>
2016	T6	Cognitive Shopping using Watson Conversation Services <i>IBM Digital Leaders Connect</i>
	T5	Cognitive Shopping using Watson Conversation Services <i>IBM Cloud Innovation Forum</i>
2013	T4	Persuade to Conserve <i>École Polytechnique Fédérale de Lausanne (EPFL), Switzerland</i>
	T3	Persuade to Conserve <i>IBM Zurich Research Lab</i>
	T2	Insights into Paper-based Record Management System <i>Microsoft Research India</i>
2012	T1	Energy Efficiency and Conservation <i>IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)</i>

TEACHING ASSISTANT EXPERIENCE

Spring 2016	CSE 414: Introduction to Data Management <i>Instructor: Dr. Dan Weld, University of Washington</i>
Fall 2015	CSE 590P: Advanced Topics in Ubiquitous Computing <i>Instructor: Dr. Mayank Goel, University of Washington</i>
Fall 2010	CSC 428/CSC 2514: Human Computer Interaction <i>Instructor: Dr. Khai Truong, University of Toronto</i>
Spring 2010	CSC 343: Introduction to Databases <i>Instructor: Dr. Diane Horton, University of Toronto</i>
Fall 2009	CSC 369: Operating Systems <i>Instructor: Dr. Karen Reid, University of Toronto</i>
Spring 2009	IT 215: Systems Software <i>Instructor: Dr. Anish Mathuria, DA-IICT</i>

VOLUNTARY ACTIVITIES

PROGRAM COMMITTEE MEMBER

- 2025 IUI, *ACM International Conference on Intelligent User Interfaces*
- 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

- 2025 AI for Healthcare.
TAB 2025, Microsoft
- 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*
- Publicity Chair**, ISWC, *International Symposium on Wearable Computers*
- 2014

REVIEWER

- 2011-2025 CHI, *ACM Conference on Human Factors in Computing Systems*
- 2013-2023 IMWUT, *PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* (previously UbiComp)
- 2015, 19-25 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

- | | |
|------------------------------|---|
| CataractBot
[C47, A2, A3] | <p>The Hindu Business Line. Bot in white coat. Keep your questions coming, dear patient. 7 Oct 2024.</p> <p>Economic Times. AI diagnosis is just what the doctor ordered. 8 Oct 2024.</p> <p>The Hindu. The immense potential, and practical use of AI in ophthalmology. 10 Dec 2024.</p> |
| Agriculture
[P19] | <p>The Hindu. Karnataka tomato growers to get crop, price forecasts from IBM using AI, ML. Feb 2019.</p> <p>Business Standard. Towards farms of the future: How AI is revolutionising agriculture in India. Mar 2019.</p> <p>IBM Newsroom. NSTDA and IBM Research Use AI to Transform Sugarcane Farming in Thailand with Mitr Phol. Mar 2019.</p> |
| UrJar
[C11, W7] | <p>ProSieben. Featured on the documentary series <i>Galileo</i> on ProSieben (Channel 7) in Germany. 2015.</p> <p>BBC. Old Laptop Batteries could Power Slums, IBM says. Dec, 2014.</p> <p>MIT Technology Review. Discarded Laptop Batteries Keep the Lights On. Dec 2014.</p> <p>IEEE Spectrum. Turning E-Waste into Light. Dec 2014.</p> <p>SlashDot. Using Discarded Laptop Batteries To Power Lights. Dec 2014.</p> <p>The Register. IBM Research wants laptop batteries to retire and slum it. Dec 2014.</p> <p>The Economic Times. Old laptop batteries could power slums in India: Study. Dec 2014.</p> <p>Live Mint. India's digital transformation needs innovation. Mar 2015.</p> <p>Hindustan Times. Trashed laptop batteries to power homes. Dec 2014.</p> <p>India Times. Jugaad! Read What These Guys Did With Discarded Batteries. Jan 2015.</p> <p>NDTV. IBM Researchers Use Dumped Laptop Batteries to Create Battery Packs. Dec 2014.</p> <p>BGR. Discarded laptop batteries to create an emergency lighting system. Dec 2014.</p> <p>Newsweek. Old Laptop Batteries Could Bring Power to India's Slums. Dec 2014.</p> <p>Uber Gizmo. E-Waste Recycled, Delivers Power In Second Life. Dec 2014.</p> <p>Business Today. Trashed laptop batteries to power homes. Dec 2014.</p> |
| DISHA
[C1, W2] | <p>Microsoft Blog. Microsoft Announces Imagine Cup 2009 Worldwide Winners. July 2009.</p> |

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