



# Dhruv Jain





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## Education

- 2017 – **UNIVERSITY OF WASHINGTON, SEATTLE**  
PHD, Computer Science and Engineering  
[GPA: 3.93/4.0](#)
- 2014 – 2016 **MIT MEDIA LAB**  
Masters, Media Arts and Sciences  
[GPA: 5.0/5.0, President of MIT Scuba Club](#)
- 2009 – 2013 **INDIAN INSTITUTE OF TECHNOLOGY, DELHI**  
Bachelors, Computer Science and Engineering  
[GPA: 9.23/10.0, Class Rank: 3/81, best bachelors thesis](#)

## Publications

- 2019  
2 **EXPLORING SOUND AWARENESS IN THE HOME FOR PEOPLE WHO ARE DEAF OR HARD OF HEARING**  
Jain, Lin, Guttman, Amalachandran, Zeng, Findlater, and Froehlich  
[ACM CHI 2019](#)
- 1 **DEAF AND HARD-OF-HEARING INDIVIDUALS' PREFERENCES FOR WEARABLE AND MOBILE SOUND AWARENESS**  
Findlater, Chinh, Jain, Froehlich, Kushalnagar, and Lin  
[ACM CHI 2019](#)
- 2018  
2 **TOWARDS ACCESSIBLE CONVERSATIONS IN A MOBILE CONTEXT FOR PEOPLE WHO ARE DEAF AND HARD OF HEARING**  
Jain, Franz, Findlater, Cannon, Kushalnagar, and Froehlich  
[ACM ASSETS 2018](#)
- 1 **EXPLORING AUGMENTED REALITY APPROACHES TO REAL-TIME CAPTIONING: A PRELIMINARY AUTOETHNOGRAPHIC STUDY**  
Jain, Chinh, Findlater, Kushalnagar, and Froehlich  
[ACM DIS 2018](#)
- 2016  
4 **IMMERSIVE SCUBA DIVING SIMULATOR USING VIRTUAL REALITY**  
Jain, Sra, Gro, Marques, Wu, Chiu, and Schmandt  
[ACM UIST 2016](#)  
 MIT council of arts grant (\$4k), extensive press coverage
- 3 **RESOLVING SPATIAL VARIATION AND ALLOWING SPECTATOR PARTICIPATION IN MULTIPLAYER VR**  
Sra, Jain, Caetano, Calvo, Hilton, and Schmandt  
[ACM UIST 2016](#)
- 2 **IMMERSIVE TERRESTRIAL SCUBA DIVING USING VIRTUAL REALITY**  
Jain, Sra, Gro, Marques, Wu, Chiu, and Schmandt  
[ACM CHI 2016](#)  
 extensive press coverage
- 1 **TOWARDS INTERACTIVE FORCE-SENSITIVE DIGITALLY ENCODED MATERIALS FOR ARCHITECTURAL MODELS AND CONSTRUCTION**  
Jain, Babbitt, Canning, and Willmer-Shiles  
[ACM CHI 2016](#)
- 2015  
2 **JOGCALL: PERSUASIVE SYSTEM FOR COUPLES TO JOG TOGETHER**  
Jain, and Schmandt  
[PERSUASIVE 2015](#)
- 1 **HEAD-MOUNTED DISPLAY VISUALIZATIONS TO SUPPORT SOUND AWARENESS FOR THE DEAF AND HARD OF HEARING**

- Jain, Findlater, Gilkeson, Holland, Duraiswami, Zotkin, Vogler, and Froehlich  
**ACM CHI 2015**  
 Google faculty research award (\$90k), NSF grant (\$1.2m), UW reality lab grant (\$90k)
- 2014  
 2 **PILOT EVALUATION OF A PATH-GUIDED INDOOR NAVIGATION SYSTEM FOR VISUALLY IMPAIRED IN A PUBLIC MUSEUM**  
 Jain  
[ACM ASSETS 2014](#)
- 1 **PATH-GUIDED INDOOR NAVIGATION FOR THE VISUALLY IMPAIRED USING MINIMAL BUILDING RETROFITTING**  
 Jain  
[ACM ASSETS 2014](#)  
 Samsung university relations grant (\$25k), IIT Delhi alumni award (₹200k), best bachelors thesis (₹10k), extensive press coverage
- 2013  
 3 **PATH-GUIDED AUDIO BASED INDOOR NAVIGATION SYSTEM FOR PERSONS WITH VISUAL IMPAIRMENT**  
 Jain, Jain, Paul, Komarika, and Balakrishnan  
[ACM ASSETS 2013](#)  
 extensive press coverage
- 2 **APPLICATION OF SHAPE MEMORY ALLOY BASED ACTUATION FOR REFRESHABLE DISPLAY OF BRAILLE**  
 Singhal, Jain, Chanana, Jain, Paul, Balakrishnan, and Rao  
[ASME/IEEE MESA 2013](#)
- 1 **WHITESPACE NETWORKS FOR VEHICULAR COMMUNICATION**  
 Jain, Gupta, Gautam, Kumar, Ribeiro, and Sharma  
[COMSNETS 2013](#)
- 2012  
 1 **DESIGN AND USER STUDY OF AN AFFORDABLE CELLPHONE BASED INDOOR NAVIGATION SYSTEM FOR VISUALLY IMPAIRED**  
 Jain, Agrawal, Maheshwari, Mittal, Balakrishnan, Rao, and 11 others  
[TRANSED 2012](#)  
 **best paper award**, extensive press coverage

## Appointments

- 2013 – **WORLDWIDE EDUCATION OUTREACH INITIATIVES**  
 Faculty and organizing member for design and innovation workshops in India ('13, '14, '15, '16, sponsored by MIT India, TechTop, Samsung, ICICI Bank), Mexico ('16, sponsored by CDC Mexico) and France ('17, sponsored by MIT France, Grenoble École de Management).
- 2015 – 2016 **GOOGLE LIME SCHOLAR**  
 Among 12 disabled students selected in the US for this prestigious scholarship (\$10k).
- 2011 – 2014 **RESEARCH INTERNSHIPS**  
 University of Maryland-College Park (Summer 2014), Microsoft Research-India (Fall 2013), Packard Foundation (Summer 2013), University of Wisconsin-Madison (Summer 2012), Stanford India Biodesign (Winter 2011-2012)
- 2014 – 2016 **MIT SCUBA CLUB**  
 President ('15-'16), Vice President ('14-'15)
- 2012 – 2016 **MIT AND IIT DELHI ASSISTIVE TECHNOLOGY CLUBS**  
 Co-Director of MIT AT Club ('14-'16), Treasurer of MIT ASL Club ('16), Co-Founder of IIT Delhi AT Club ('12-'14)