



Deepti Aggarwal

PhD Candidate

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PROFILE

Research interests Video based Medical Consultation (Teleconsultation), HCI and Health, Bodily Communication, Natural User Interactions, Wearable Computers

EDUCATION

Doctor of Philosophy Microsoft Research Centre for SocialNUI, University of Melbourne, Australia
2014 – present
Thesis title: Supporting Bodily Communication in Video Consultations
Advisors: Prof. Frank Vetere, Dr. Bernd Ploderer, Dr. Thuong Hoang

Master of Science by Research International Institute of Information Technology, Hyderabad, India
2010 – 2013
Thesis title: Exploring Crowdsourcing to Personalize Web Experiences
Advisors: Prof. Venkatesh Choppella and Prof. Vasudeva Varma

PUBLICATIONS

- Full Papers**
- [1] **Deepti Aggarwal**, Weiyi Zhang, Thuong Hoang, Bernd Ploderer, Frank Vetere, and Mark Bradford. 2017. SoPhy: A Wearable Technology for Lower Limb Assessment in Video Consultations of Physiotherapy. In Proceedings of the 35th Annual ACM Conference on Human Factors in Computing Systems (CHI'17).
 - [2] Rohit Ashok Khot, **Deepti Aggarwal**, Ryan Pennings, Larissa Hjorth, and Florian 'Floyd' Mueller. 2017. EdiPulse: Investigating a Playful Approach to Self-monitoring through 3D Printed Chocolate Treats. In Proceedings of the 35th Annual ACM Conference on Human Factors in Computing Systems (CHI'17).
 - [3] **Deepti Aggarwal**, Bernd Ploderer, Frank Vetere, Mark Bradford, and Thuong Hoang. 2016. Doctor, Can You See My Squats?: Understanding Bodily Communication in Video Consultations for Physiotherapy. In Proceedings of the 2016 ACM Conference on Designing Interactive Systems (DIS'16).
 - [4] **Deepti Aggarwal**, Robyn Garnett, Bernd Ploderer, Frank Vetere, Patricia Eadie, and Bronwyn Joy Davidson. 2015. Understanding Video based Parent Training for Children with Autism. In Proceedings of the 27th Australian ACM Conference on Human-Computer Interaction (OzCHI '15).

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- [5] Rohit Ashok Khot, Jeewon Lee, **Deepti Aggarwal**, Larissa Hjorth, and Florian 'Floyd' Mueller. 2015. TastyBeats: Designing Palatable Representations of Physical Activity. In Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems (CHI '15). [**Best Paper Honorable Mention Award**]
 - [6] **Deepti Aggarwal**, Rohit Ashok Khot, Vasudeva Varma, and Venkatesh Choppella. 2012. uPICK: Crowdsourcing Based Approach to Extract Relations Among Named Entities. In Proceedings of IndiaHCl (IndiaHCl '12).
 - [7] **Deepti Aggarwal**, Himanshu Zade, and Anind K. Dey. 2012. Demography based Automated Teller Machines. In Proceedings of IndiaHCl (IndiaHCl '12).
 - [8] Vasudeva Varma, Bhaskar Ghosh, Mohan Soundararajan, **Deepti Aggarwal**, and Priya Radhakrishnan. 2012. IIIT Hyderabad at TAC 2012. In Proceedings of Text Analysis Conference (TAC '12).

Short Papers

- [1] **Deepti Aggarwal**. 2017. SoPhy: A Wearable Technology for Effective Video Consultations of Physiotherapy. In Proceedings of The University of Melbourne CIS DC 2017. [**Best Paper Honorable Mention Award**]
- [2] **Deepti Aggarwal**, Thuong Hoang, Weiyi Zhang, Bernd Ploderer, Frank Vetere, and Mark Bradford. 2017. SoPhy: Smart Socks for Video Consultations of Physiotherapy. To appear in Proceedings of Springer LNCS INTERACT 2017.
- [3] **Deepti Aggarwal**. 2016. Supporting Bodily Communication in Video Based Clinical Consultations. In Proceedings of the ACM 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '16).
- [4] Robyn Garnett, Patricia Eadie, Bronwyn Davidson, Ken Clarke, Zaher Joukhadar, and **Deepti Aggarwal**. 2015. Utilising Technologies to Address the Social Communication of Young Children with Autism Spectrum Disorder. In Asia Pacific Autism Conference (APAC '15).
- [5] Rohit Ashok Khot, Jeewon Lee, Helmut Munz, **Deepti Aggarwal**, and Florian Floyd Mueller. 2014. TastyBeats: making mocktails with heartbeats. In Proceedings of the ACM 2014 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '14).
- [6] **Deepti Aggarwal**, Rohit Ashok Khot, and Venkatesh Choppella. 2013. Power of friends: when friends guess about their friends' guess. In Proceedings of the ACM 2013 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '13).
- [7] T. B. Dinesh, S. Uskudarli, Subramanya Sastry, **Deepti Aggarwal**, and Venkatesh Choppella. 2012. Alipi: a framework for re-narrating web pages. In ACM Proceedings of the International Cross-Disciplinary Conference on Web Accessibility (W4A '12).

Workshop Papers

- [1] **Deepti Aggarwal**, Philip Goebel, and Rohit Ashok Khot. 2017. Caring for the Caregivers of People with Dementia. In Proceedings of CHI'17 workshop on HCIXDementia: The Role of Technology and Design in Dementia.
- [2] **Deepti Aggarwal**, Bernd Ploderer, and Frank Vetere. 2015. Addressing Research Gaps in Teleconsultation Settings. In Proceedings of CHI '15 workshop on Everyday TelePresence: Emerging Practices and Future Research Directions.

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- [3] Rohit Ashok Khot, Larissa Hjorth, **Deepti Aggarwal**, and Florian 'Floyd' Mueller. 2014. Supporting Autonomy in Physical Activity Through Material Artefacts. In Proceedings of CHI '14 workshop on Positive Computing.
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EXPERIENCE

Honorary Appointment at Royal Children's Hospital, Melbourne	Feb. 2017 - present
Internship at UCL Interaction Center, UK	Oct. 2016 – Nov. 2016
Supervision of Masters Project: Weiyi Zhang	Dec. 2015 – May 2016
Student Intern at Carnegie Mellon University, Pittsburgh, USA	May 2013 – Oct. 2013
Supervision of UG Project: Kartikey Vyas & Deep Dixit	Feb. 2012 – May 2013
Research Associate of Virtual Labs MHRD Project, India	Jan. 2011 – Dec. 2012
Campus System Administrator at IIIT-Hyderabad, India	Oct. 2010 – Dec. 2010
Internship at NTPC, Dadri, India	July 2009
Internship at BHEL, Raipur, India	June 2009
Training on Network & Ethical Hacking, Nettech, Jaipur, India	June 2008

HONORS and AWARDS

- [1] Best Paper Honorable Mention Award at CIS DC 2017
 - [2] Invited Research Demo of SoPhy: A Wearable Technology for Video Consultations of Physiotherapy at CHI 2017
 - [3] Recipient of the Conference Travel Scholarship to present at CHI 2017
 - [4] Recipient of the Melbourne Abroad Travel Scholarship to present at DIS 2016
 - [5] Recipient of ACM Travel Funding to present at CHI 2016 Doctoral Consortium
 - [6] Best Paper Honorable Mention Award at CHI 2015
 - [7] Recipient of the Microsoft SocialNUI Travel Scholarship 2015 - 2017
 - [8] Recipient of the SocialNUI Postgraduate Top-up Scholarship 2015 - 2017
 - [9] Recipient of the MIFRS and MIRS scholarships 2014 - 2017
 - [10] Finalist of the Student Innovation Contest, UIST 2013
 - [11] Recipient of Pramati Ltd. Travel Grant to intern at Carnegie Mellon University, 2013
 - [12] ACM-Women Travel Grant to present at CHI 2013
 - [13] Innovative Design Award at TechEase, 2011
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SERVICES

- [1] Media Liaison, CIS Dept., University of Melbourne, 2016
 - [2] Coordinator for IDL Seminars, University of Melbourne, 2015 - 2016.
 - [3] Co-chair for OzCHI Student Design Challenge, 2015.
 - [4] Co-organizer for Hands-on Computing 2015, University of Melbourne.
 - [5] Student Volunteer for DIS 2016, CHI-2015, WWW 2011.
 - [6] Reviewer for full-paper category - CHI 2017, CHI Play 2017, DIS 2016, OzCHI 2014 to 2017, HIPC-2012, ICON-2011.
 - [7] Reviewer for work-in-progress paper category – CHI 2017, CHI PLAY 2017 & 2016, CHI-2014 & 2013.
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[8] Co-organizer for National Workshop on Usability Design: TechEase-2011.

[9] Co-organizer and Program host, Spic Macay Virasat 2010, IIIT-Hyderabad sub-chapter.

REFERENCES

Prof. Frank Vetere
Director of Microsoft Research Center for SocialNUI
Melbourne School of Engineering
University of Melbourne, Australia
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Dr. Bernd Ploderer
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