

Debaleena Chattopadhyay, Ph.D.

EMPLOYMENT **Assistant Professor, Tenure Track** October, 2016–
Department of Computer Science, The University of Illinois at Chicago, Illinois, USA
Research Intern Summer, 2015
Human Experience and Design (HxD) group, Microsoft Research, Cambridge, UK
Instructor Spring, 2015
School of Informatics and Computing, Indiana University, Indianapolis, USA
Research Intern Summer, 2008
Innovation Lab, Tata Consultancy Service Ltd., Kolkata, India

EDUCATION **Ph.D., Human-Computer Interaction** 2016
Department of Human-Centered Computing, School of Informatics and Computing
Indiana University, Indianapolis, Indiana, USA
Doctoral Dissertation: Understanding interaction mechanics in touchless target selection.

M.S., Computer Science 2011
Computer Science Department
Stony Brook University, Stony Brook, New York, USA
Master's Thesis: Multimodal tagging of human motion using skeletal tracking with Kinect.

B.Tech., Computer Science & Engineering 2009
Department of Computer Science and Engineering
West Bengal University of Technology, Kolkata, West Bengal, India

RESEARCH

Authors marked with ⁺ are my graduate students. In my sub-field of CS, we put the main graduate student first and the principal investigator (PI) last.

REFEREED JOURNAL ARTICLES [J.11] Knowles, B., Hanson, V., L., Rogers, Y., Piper, A., M., Waycott, J., Davies, N., Ambe, A., Brewer, R., N., **Chattopadhyay, D.**, et al., (2021). The Harm in Conflating Aging with Accessibility. *Communications of ACM*.

[J.10] Habibi, P.⁺, & **Chattopadhyay, D.** (2021). The Impact of Handedness on User Performance in Touchless Input. *International Journal of Human-Computer Studies*, 149, 102600.

[J.9] Dunn Lopez, K., Chae, S., Girgis M., Fraczkowski, D., Habibi, P.⁺, **Chattopadhyay, D.**, & Donevant, S. (2020). Improved readability and functions needed for mHealth apps targeting patients with heart failure: An app store review. *Research in Nursing & Health*, 2020; 1– 10.

[J.8] **Chattopadhyay, D.**, Ma T.⁺, Sharifi H.⁺, Martyn-Nemeth P. (2020). Computer-Controlled Virtual Humans in Patient-Facing Systems: Systematic Review and Meta-Analysis. *Journal of Medical Internet Research*, 22(7), e18839.

[J.7] **Chattopadhyay, D.**, Verma, N., Duke, J. D., & Bolchini, D. (2018). Design and Evaluation of Trust-Eliciting Cues in Drug-Drug Interaction Alerts. *Interacting with Computers*, 30(2),

[J.6] **Chattopadhyay, D.**, Salvadori, F., O’Hara, K., & Rintel, S. (2017). Beyond presentation: Shared slideware control as a resource for collocated collaboration. *Human-Computer Interaction*, 33:5-6, 455–498.

[J.4] **Chattopadhyay, D.** & MacDorman, K. F. (2016). Familiar faces rendered strange: Why inconsistent realism drives characters into the uncanny valley. *Journal of Vision*, 16(11), 1–25.

[J.3] MacDorman, K. F., & **Chattopadhyay, D.** (2016). Reducing consistency in human realism increases the uncanny valley effect; increasing category uncertainty does not. *Cognition*, 146, 190–205.

[J.2] **Chattopadhyay, D.**, Rohani Ghahari, R., Duke, J. D., & Bolchini, D. (2015). Understanding advice sharing among physicians: towards trust-based clinical alerts. *Interacting with Computers*, 28(4), 532–551.

[J.1] **Chattopadhyay, D.**, & Bolchini, D. (2015). Motor-intuitive interactions based on image schemas: aligning touchless interaction primitives with human sensorimotor abilities. *Interacting with Computers*, 27(3), 327–343.

PEER-REVIEWED
CONFERENCE
PROCEEDINGS
FULL PAPERS

[C.10] Sharifi, H.⁺, & **Chattopadhyay, D.** (2023). Senior Technology Learning Preferences Model for Mobile Technology. In Proceedings of the 2023 International Conference on Human-Computer Interaction with Mobile Devices and Services, *MobileHCI*, ACM, 39 pages.

[C.9] Yu, J.⁺, Parde, N., & **Chattopadhyay, D.** (2023). “Where is history”: Toward Designing a Voice Assistant to help Older Adults locate Interface Features quickly. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems, *CHI*, ACM, 19 pages.

[C.8] Yu, J.⁺, & **Chattopadhyay, D.** (2020). “Maps are hard for me”: Identifying how Older Adults Struggle with Mobile Maps. In Proceedings of the 22nd International ACM SIGACCESS Conference on Computers and Accessibility, *ASSETS*, ACM, Article 40, 1–8.

[C.7] Sakhnini, N.⁺, Yu, J.⁺, Jones, R., M., & **Chattopadhyay, D.** (2020). Personal Air Pollution Monitoring Technologies: User Practices and Preferences. In Proceedings of the HCI International 2020 — Late Breaking Papers, *HCI*, Springer, Cham.

[C.6] Acharya, S., Di Eugenio, B., Boyd, A. D., Cameron, R., Lopez, K. D., Martyn-Nemeth, P., **Chattopadhyay, D.**, Habibi, P.⁺, Dickens, C., Vatani, H., and Ardati, A. (2019). A Quantitative Analysis of Patients’ Narratives of Heart Failure. In Proceedings of the Annual Meeting of the Special Interest Group on Discourse and Dialogue, *SIGDIAL*.

[C.5] **Chattopadhyay, D.**, O’Hara, K., Rintel, S., & Rädle, R. (2016) Office Social: Presentation interactivity for nearby devices. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, *CHI*, 2487–2491, ACM.

[C.4] **Chattopadhyay, D.**, & Bolchini, D. (2014). Touchless Circular Menus: Toward an intu-

itive UI for touchless interactions with large displays. In Proceedings of the International Working Conference on Advanced Visual Interfaces, *AVI*, 33–40, ACM.

[C.3] Yun, K., Carrillo, J. H., **Chattopadhyay, D.**, Berg, T. L., & Samaras, D. (2012). Two-person interaction detection using body-pose features and multiple instance learning. In Proceedings of Computer Vision and Pattern Recognition Workshops, *CVPR*, 28–35, IEEE.

[C.2] Berg, T. L., **Chattopadhyay, D.**, Schedel, M., & Vallier, T. (2012). Interactive music: Human motion initiated music generation using skeletal tracking by Kinect. In Proceedings of Society for Electro-Acoustic Music in the United States, *SEAMUS*, Wisconsin, USA.

[C.1] Bhowmick, B., & **Chattopadhyay, D.** (2009). Shot boundary detection using texture feature based on co-occurrence matrices. In Proceedings of International Conference on Multimedia, Signal Processing and Communication Technologies, *IMPACT*, 165–168, IEEE.

[E.11] Sharifi, H.⁺, & **Chattopadhyay, D.** (2023). A Cross-Cultural Study of Relational Maintenance in Tech Caregiving. In Proceedings of the 2023 SIGCHI Conference on Human Factors in Computing Systems. *CHI*, ACM.

[E.19] Sakhnini, N.⁺, & **Chattopadhyay, D.** (2022). A Review of Smartphone Fact-Checking Apps and their (Non) Use Among Older Adults. In Adjunct Publication of the 24th International Conference on Human-Computer Interaction with Mobile Devices and Services, *MobileHCI*, ACM.

[E.18] Yu, J.⁺, & **Chattopadhyay, D.** (2020). Supporting Older Adults in Locating Mobile Interface Features with Voice Input. In Proceedings of the 22nd International ACM SIGACCESS Conference on Computers and Accessibility, *ASSETS*, ACM.

[E.17] Sengupta, K., Sarcar, S., Pradhan, A., McNaney, R., Sayago, S., **Chattopadhyay, D.**, & Joshi, A. (2020). Challenges and Opportunities of Leveraging Intelligent Conversational Assistant to Improve the Well-being of Older Adults. SIG proposal. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, *CHI*, ACM.

[E.16] Dunn Lopez, K., Chae, S. Girgis, M., Fraczkowski, D. Habibi, P.⁺, **Chattopadhyay, D.**, & Donevant, S.B. (2020). Improved Readability and Functions needed for mHealth targeting patients with heart failure: An app store review. Midwest Nursing Research Society’s 44th Annual Research Conference, *MNRS*, Chicago, USA.

[E.15] Vatani, H., Acharya, S, Boyd, A. D., Di Eugenio, B, Cameron, R, Martyn-Nemeth, P., **Chattopadhyay, D.**, Habibi, P.⁺, Dickens, C., Ardati, A, & Dunn Lopez, K. (2019). Patients’ Perceptions of Heart Failure Through the Lens of Standardized Nursing Terminologies, *AMIA*, Washington, D.C., USA.

[E.14] Acharya, S., Di Eugenio, B., Boyd, A. D., Cameron, R., Lopez, K. D., Martyn-Nemeth, P., **Chattopadhyay, D.**, Habibi, P.⁺, Dickens, C., Vatani, H., & Ardati, A. (2019). Promoting Patient Engagement Through Personalized Hospital-Stay Summaries. IEEE International Conference on Biomedical & Health Informatics, *BHI*, Chicago, USA.

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- [E.13] Habibi, P.⁺, Acharya, S., Di Eugenio, B., Cameron, R., Boyd, A. D., Lopez, K. D., Martyn-Nemeth, P., Dickens, C., Ardati, A., & **Chattopadhyay, D.** (2019). Designing self-care technologies for HF patients: A conceptual model. Workgroup on Interactive Systems in Healthcare, *WISH*, Glasgow, UK.
- [E.12] **Chattopadhyay, D.** (2019). Designing for Older Adults: Beyond Accessibility. Position paper at the HCI and Aging: Beyond Accessibility Workshop, *CHI*, Glasgow, UK.
- [E.11] Habibi, P.⁺, & **Chattopadhyay, D.** (2019). A Left-Hand Advantage: Motor Asymmetry in Touchless Input. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems. *CHI*, ACM.
- [E.10] Ma, T.⁺, Sharifi, H.⁺, & **Chattopadhyay, D.** (2019). Virtual Humans in Health-Related Interventions: A Meta-Analysis. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems. *CHI*, ACM.
- [E.9] Naik, H.⁺, & **Chattopadhyay, D.** (2019). An Extensible Data Collection and Annotation Tool for Co-located Group Interactions. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems. *CHI*, ACM.
- [E.8] **Chattopadhyay, D.** (2018). Toward a Bayesian Approach for Self-Tracking Personal Pollution Exposures. *UbiComp Adjunct*, 1166–1171, ACM.
- [E.7] Sakhnini, N.⁺, Yu, J.⁺, and **Chattopadhyay, D.** (2018). myCityMeter: Helping Older Adults Manage the Environmental Risk Factors for Cognitive Impairment. *UbiComp Adjunct*, 235–238, ACM. *Best Poster Honorable Mention, top 1.5%*
- [E.6] **Chattopadhyay, D.**, Duke, J. D., & Bolchini, D. (2016). Endorsement, prior action, and language: modeling trusted advice in computerized clinical alerts. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, *CHI*, 2027–2033, ACM. *Best Paper Honorable Mention, top 5%*
- [E.5] **Chattopadhyay, D.** (2015). Toward motor-intuitive interaction primitives for touchless interfaces. In Proceedings of the Tenth International Conference on Interactive Tabletops and Surfaces, *ITS*, 445–450, ACM. (*Doctoral Consortium*)
- [E.4] **Chattopadhyay, D.** (2015). Exploring perceptual and motor Gestalt in touchless interactions with distant displays. In Proceedings of the Ninth International Conference on Tangible, Embedded and Embodied Interaction, *TEI*, 433–436, ACM. (*Doctoral Consortium*)
- [E.3] **Chattopadhyay, D.**, Achmiz, S., Saxena, S., Bansal, M., Bolchini, D., & Volda, S. (2014). Holes, pits, and valleys: guiding large-display touchless interactions with data-morphed topographies. Ext. Abstracts, *UbiComp*, 19–22, ACM.
- [E.2] **Chattopadhyay, D.**, Pan, W., & Bolchini, D. (2013). A ‘Stopper’ metaphor for persistent visual feedback in touchless interactions with wall-sized displays. International Symposium on Pervasive Displays, *PerDis*, Mountain View, California, USA.

[E.1] **Chattopadhyay, D.**, & Bolchini, D. (2013). Laid-back, touchless collaboration around wall-size displays: visual feedback and affordances. Position paper at the International Workshop on Interactive, Ultra-High-Resolution Displays (POWERWALL), *CHI*, Paris, France.

PATENTS

[P.2] Content navigation control, US Provisional Patent, (2017), Co-inventors: O'Hara, K., Smyth, G., Rintel, S., **Chattopadhyay, D.**

[P.1] Shot boundary detection based on co-occurrence matrices, Government of India Provisional Patent Application No. 2124/MUM/2008 A, Date filed: 03/10/2008, Date published: 30/07/2010, Co-inventors: **Chattopadhyay, D.**, Bhowmick, B.

ACTIVE
GRANTS

[G.3] NIH: R01: SCH: INT: MyPHA: Automatically generating personalized accounts of in-patient hospitalization. \$1,495,213 Co-PI, 2018–2022

COMPLETED
GRANTS

[G.2] NIH: R56: Data Infrastructure and Gateway for Public Health Research on the Environmental Causes of Diseases. \$106,562 Co-PI, 2018–2019

[G.1] NSF: MRI: Development of Continuum: A Virtualized Attentive Environment for Amplified Collaboration. \$566,001 Co-PI, 2016–2019

HONORS
& AWARDS

Honors and Fellowships—

UIC College of Engineering (COE) Teaching Award	2019
UbiComp/ISWC 2018 Best Poster Honorable Mention	2018
CHI 2016 Late-Breaking Work (LBW) Best Paper Honorable Mention	2016
Indiana University Graduate School IUPUI Chancellor's Scholar	2016
SIGCHI Special Recognition, CHI 2015 reviewer	2015
Best graduate student in the IU School of Informatics and Computing, Indianapolis, USA	2015
Premiere 10 Award, top 10 among all graduate and professional students at IUPUI	2015
Elite 50 Award ¹ , Indianapolis, IN, USA.	2015
Indiana University–Purdue University Indianapolis (IUPUI) Fellowship	2012
Computer Science Chair Fellowship, Stony Brook University	2009

Travel Awards—

NSF CAREER Proposal Writing workshop, Washington D.C., USA	2017
IUPUI Graduate Office Travel Fellowship Award	2015
NSF Travel Grant, TEI 2015 Doctoral Consortium (GSC), Stanford, CA, USA	2015
Microsoft Travel Award, ACM SRC, GHC, Minneapolis, MN, USA	2013
Xerox-Foundation Scholarship, GHC, Minneapolis, MN, USA.	2013
IUPUI SoIC Travel Award, ACM TAPIA Conference, Washington D.C., USA	2012
Carnegie Mellon University Honorarium, Art && Code, Pittsburgh, USA	2011
ACM scholarship, CRA-W Graduate Cohort Workshop, Boston, MA, USA	2011

¹Elite 50 recognizes and rewards achievement outside the classroom, representing the top 0.5 percent of about 8,100 graduate and professional students at IUPUI

INVITED
TALKS

-
- Designing beyond-the-desktop technologies for older adults.*
Department of Mathematics, Statistics, and Computer Science Colloquium, Marquette University,
Milwaukee, WI. October 2018
- Virtual characters in health-related assessments and interventions: some sociotechnical implications.*
Keynote at the Work in the Age of Intelligent Machines Academy of Management Professional
Development Workshop, Chicago. August 2018
- Thinking about affordances to design intuitive, interactive Systems.*
College of Computing and Digital Media Colloquium, De Paul University, Chicago. May 2018
- From critique to collaboration: A fundamental rethinking of computerized clinical alerts.*
Indiana Chapter of the Usability Professionals' Association (UxPA), Indianapolis. March 2015
- Touchless Circular Menus: Toward an intuitive UI for touchless interactions with large displays.*
International Working Conference on Advanced Visual Interfaces AVI, Como, Italy. May 2014
- Collaboration around wall-sized displays.*
Statewide IT Conference, Bloomington, Indiana. October 2013
- Designing the touchless user experience with wall-sized displays.*
Indiana Chapter of the Usability Professionals' Association (UxPA), Indianapolis. October 2013
- Multimodal tagging of human motion using skeletal tracking with Kinect.*
Art && Code 3D Workshop. Carnegie Mellon University, Pittsburgh. October 2011
- Shot boundary detection using texture feature based on co-occurrence matrices.*
International Conference on Multimedia, Signal Processing and Communication Technologies,
Aligarh Muslim University, Aligarh, India. March 2009

NON
PEER-REVIEWED
PUBLICATIONS

- Chattopadhyay, D.** (2018). Shared Document Control in Multi-Device Classrooms. Technical Report CI-MDC-10-2018. University of Illinois at Chicago.
- Jones, R., M., **Chattopadhyay, D.**, Huang, Y-K., Jagai, J., & Shi, X. (2018). Data Infrastructure and Gateway for Environmental Health Research. Poster presented at ISES-ISEE 2018 Joint Annual Meeting. International Society of Exposure Science and the International Society for Environmental Epidemiology.
- Habibi, P., & **Chattopadhyay, D.** (2018). Touchless Performance in Non-Preferred Hands. Poster presented at the CRA-W Grad Cohort 2018, San Francisco, CA.
- Sakhnini, N., & **Chattopadhyay, D.** (2018). Walking the talk: Generating memory cues to help people with dementia in everyday conversations. Poster presented at the Role/Play: Collaborative Creativity and Creative Collaborations Student Fellows Symposium. National Academy of Sciences, Washington, D. C.
- Bolchini, D., **Chattopadhyay, D.**, Jia, Y., Rohani Ghahari, R. & Duke, J., D. (2016). From

critique to collaboration: A fundamental rethinking of computerized clinical alerts. Poster, IUPUI Research Day, Indianapolis, Indiana.

Bolchini, D., Duke, J. D., **Chattopadhyay, D.**, & Rohani Ghahari, R. (2015). From critique to collaboration: A fundamental rethinking of computerized clinical alerts. Poster presented at NSF SCH PI Workshop, Washington D.C..

Chattopadhyay, D., & Bolchini, D. (2014). Understanding visual feedback in large-display touchless interactions: an exploratory study. IUPUI Scholar Works, Indiana University.

Chattopadhyay, D., Achmiz, S., & Bolchini, D. (2014). Next-generation interaction with ultra large, wall-sized displays. Poster, IUPUI Research Day, Indianapolis, Indiana.

Chattopadhyay, D. (2013). A ‘Stopper’ metaphor for persistent visual feedback in touchless interactions with wall-sized displays. Poster, ACM Student Research Competition at The GHC Women in Computing, Minneapolis, Minnesota.

Wei, P., **Chattopadhyay, D.**, & Bolchini, D. (2013). The WADER environment: facilitating systematic design of touchless interactions with wall-size displays. Poster co-presented at the IUPUI Research Day, Student Showcase, IUPUI Campus Center, Indianapolis, Indiana.

Chattopadhyay, D., He, L., Jia, Y., & Bolchini, D. (2012). Novel interaction techniques for collaborating on wall-sized displays. Poster, IUPUI Research Day, Indianapolis, Indiana.

Chattopadhyay, D., Vallier, T., Berg, T., L., & Schedel, M. (2011). What does your Moonwalk sounds like? Tagging moves with music. Poster, CRA-W Graduate Workshop, Boston, MA.

Chattopadhyay, D., Yamaguchi, K., Ordonez, V., & Berg, T., L. (2010). Internet vision: What can we do with 10 billion pictures (and words). Poster, NSF I/UCRC Workshop on Dynamic Data Analytics, New York, NY.

TEACHING

TEACHING

Department of Computer Science, UIC

User Interface Design and Programming (CS 422) Fall 2023

User Experience (UX) Research Methods (CS 594) Spring 2023
Students enrolled: 21, A awarded: 17
Evaluation ($n = 16$): Instructor—4.63/5; Course—4.38/5

User Interface Design and Programming (CS 422) Fall 2022
Students enrolled: 61, A awarded: 30
Undergraduate section—Evaluation ($n = 27$): Instructor—4.41/5; Course—4.33/5
Graduate section—Evaluation ($n = 14$): Instructor—4.57/5; Course—4.5/5

Human-Computer Interaction (CS 522) Spring 2022
Students enrolled: 29, A awarded: 17

Evaluation ($n = 20$): Instructor—4.15/5; Course—4.1/5

User Interface Design and Programming (CS 422) Fall 2021
Delivered online asynchronously due to the COVID-19 pandemic
 Students enrolled: 92, A awarded: 34
 Undergraduate section—Evaluation ($n = 44$): Instructor—3.66/5; Course—3.66/5
 Graduate section—Evaluation ($n = 11$): Instructor—4.45/5; Course—4.27/5

User Interface Design and Programming (CS 422) Spring 2021
Delivered online asynchronously due to the COVID-19 pandemic
 Students enrolled: 126, A awarded: 60
 Undergraduate section—Evaluation ($n = 93$): Instructor—4.1/5; Course—4.1/5
 Graduate section—Evaluation ($n = 8$): Instructor—3.75/5; Course—3.88/5

Human-Computer Interaction (CS 522) Fall 2020
Delivered online synchronously due to the COVID-19 pandemic
 Students enrolled: 17, A awarded: 11
 Evaluation ($n = 15$): Instructor—3.6/5; Course—3.7/5

User Interface Design and Programming (CS 422) Spring 2019
 Students enrolled: 89, A awarded: 26
 Undergraduate section—Evaluation ($n = 67$): Instructor—4.3/5; Course—4.1/5
 Graduate section—Evaluation ($n = 9$): Instructor—4.44/5; Course—4.56/5

Ways of Knowing: Empirical Methods in Human-Centered Computing (CS 594) Fall 2018
 Students enrolled: 9, A awarded: 8
 Evaluation ($n = 7$): Instructor—4.71/5; Course—4.71/5 *designed new course*

User Interface Design and Programming (CS 422) Spring 2018
 Students enrolled: 68 (undergraduates—56), A awarded: 25
 Graduate Evaluation ($n = 11$): Instructor—3.82/5; Course—4.18/5
 Undergraduate Evaluation ($n = 33$): Instructor—2.48/5; Course—2.77/5
100% redesigned the course

Human-Computer Interaction (CS 522) Fall 2017
 Students enrolled: 35, A awarded: 24
 Evaluation ($n = 29$): Instructor—4/5; Course—3.9/5

Human-Computer Interaction (CS 522) Spring 2017
 Students enrolled: 22, A awarded: 12
 Evaluation ($n = 16$): Instructor —4.38/5; Course—4.25/5 *100% redesigned the course*

School of Informatics and Computing, Indiana University, Indianapolis

Introduction to Informatics (INFO 501) Spring 2015
 Co-Instructor, Introduction to Informatics (INFO 501) Spring 2014

Teaching Assistant

School of Informatics and Computing, Indiana University, Indianapolis

User Experience Architectures (Graduate course)	Summer – 2014, 2015
Psychology of HCI (Graduate course)	Fall 2013
Introduction to Research in Informatics (Undergraduate course)	Spring 2012
Serious Games (Undergraduate course)	Fall 2011
Psychology of Media (Undergraduate course)	Fall 2011

Computer Science Department, Stony Brook University, New York

Introduction to Programming (Undergraduate course)	Spring 2010
Computer Science I (Undergraduate course)	Spring 2010
Introduction to Computer Science (Undergraduate course)	Fall 2009

**GUEST
LECTURES**

University of Illinois at Chicago

Ergonomics & Human Factors, Department of Mechanical & Industrial Engg.	February 2020
Research Methods in HCI, Department of Computer Science, UIC	February 2018
Research Methods in HCI, Department of Computer Science, UIC	February 2017
Designing for Empathy in Virtual Humans, Department of Communications, UIC	Apr 2017

School of Informatics and Computing, Indiana University, Indianapolis

Informatics Research Design, Empirical Research in HCI	November 2015
Seminar in Health Informatics-I, Usability Testing & Wall Display Research	July 2013
Serious Games, Introduction to Behavioral Theories	October 2011
Psychology of Media, Introduction to Persuasion Theories	October 2011

SERVICE

PEER-REVIEW

Panel:

University of Illinois, Discovery Partners Institute (DPI) Seed Program	2019
NSF, Small Business Innovation Research (SBIR)	2018
NSF, Computer & Information Science & Engineering (CISE)	2017

Editorial Board:

Frontiers in Computer Science	2018–2020
Frontiers in Psychology	2018–2020

Conference Reviewer:

CHI: ACM Conference on Human Factors in Computing Systems	2015–2017; 2021, 2023
UIST: ACM User Interface Software and Technology Symposium	2020
INTERACT: IFIP TC.13 International Conference on Human-Computer Interaction	2019, 2021
HRI: ACM/IEEE International Conference on Human-Robot Interaction	2017–2019
IUI: ACM International Conference on Intelligent User Interfaces	2015, 2019
DIS: ACM SIGCHI Designing Interactive Systems	2018
GI: Graphics Interface	2018
ISS: ACM International Conference on Interactive Surfaces and Spaces	2017
SUI: ACM Symposium on Spatial User Interaction	2017
TEI: ACM International Conference on Tangible, Embedded and Embodied Interaction	2017

ASSETS: ACM SIGACCESS Conference on Computers and Accessibility	2016
AVI: International Working Conference on Advanced Visual Interfaces	2016
INTERACT: IFIP TC.13 International Conference on Human-Computer Interaction	2015
UbiComp: ACM International Joint Conference on Pervasive and Ubiquitous Computing	2014
NordiCHI: Nordic Conference on Human-Computer Interaction	2014
ENTER: eTourism Conference	2013
ACM Multimedia	2010

Journal Reviewer:

Journal on Multimodal User Interfaces	2019–
Perception	2019–
PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)	2018–
Frontiers in Psychology	2016–
International Journal of Human-Computer Studies	2017
Cognition	2016
International Journal of Social Robotics	2016
PLoS ONE	2016
Interacting with Computers	2015
The Visual Computer	2014

ADVISING

Department of Computer Science, UIC

PH.D. STUDENTS

Pantea Habibi	Summer 2017 –
Ja Eun Yu	Fall 2017 –
Hasti Sharifi	Fall 2018 –
Nina Sakhnini	Fall 2019 –

M.S. STUDENTS

Nina Sakhnini (Thesis track)	Summer 2017 – Spring 2019
— <i>Towards self-tracking personal pollution exposure using wearables</i>	
Venkata Ramkiran Chevendra (Project track)	Summer 2017 – Spring 2018
— <i>Collabsearch: A lightweight app for remote collaboration</i>	

UNDERGRADUATE STUDENTS

Daniel LeVert, UIC Honors College	2021
Damian Charczuk, UIC	Summer 2019
Julianne Pabona, UIC	Summer 2019
Anthony Beltran, UIC	Summer 2018
Kaveesha Weerasiri, UIC	Summer 2018
Mariko Kamiya, Swarthmore College, DREU scholar	Summer 2017
Taylor Day, Texas A&M, DREU scholar	Summer 2017
Giovanni Garcia, UIC Honors College	Summer 2017
Jack Delaney, UIC	Summer 2017
Maxwell Dausch, UIC	Summer 2017

PH.D. COMMITTEES

Ashwini Naik, Dissertation committee	2022 –
Shahla Farzana, Dissertation committee	2022 –
Sai Priya Jyothula, Dissertation committee	2022 –
Arthur Nishimoto, Dissertation committee	2019 – 2023
— <i>Collaborative Augmented Reality for Virtual Reality Display Wall Environments</i>	
Haleh Vatani, Dissertation committee	2020 – 2022
— <i>Understanding Dyadic and Polyadic Heart Failure Self-Care from Informal Caregivers</i>	
Krishna Bharadwaj, Dissertation committee	2020 – 2021
— <i>Hybrid Collaborative Virtual Environments</i>	
Jillian Aurisano, Dissertation committee	2019 – 2021
— <i>Interaction with Multiple Data Visualizations Through Natural Language Commands</i>	
Kristina Sawyer, Dissertation committee	2019 – 2021
— <i>Super-big Market-data: An HMC case study approach to Amazon Go cashierless convenience stores</i>	
Kristina Sawyer, Prelims committee	2018 – 2019
Sabita Acharya, Dissertation committee	2016 – 2019
— <i>Generating personalized hospital-stay summaries for patients</i>	
Tomas Gerlich, Dissertation committee, <i>Rigid multi-motion optical flow estimation.</i>	2017

MS PROJECT COMMITTEES

Khushbu Durge. <i>Activity recognition using android accelerometer sensor</i>	2018
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WRITTEN CRITIQUE AND PRESENTATION (WCP) COMMITTEES

Yuqing Liu. <i>Deep Learning for Session-based Recommendation</i>	2023
Chair: Md Anisur Rahman. <i>Implementation challenges in online controlled experimentation</i>	2022
Mingquan Ye. <i>Graph Sparsification and Its Applications</i>	2021
Nina Sakhmini. <i>Exploring Visual (mis)Information for Older Adults</i>	2021
Ben Baenen. <i>Concurrency Paradigms: approaches and implementations</i>	2020
Hasti Sharifi	2019
— <i>How older adults use assistive technologies; Emerging issues in trust, privacy, and confidentiality</i>	
Ja Eun Yu. <i>Machine learning in mental health assessment and intervention</i>	2019
Mojtaba Malekpourshahraki	2019
— <i>A Survey and Critique on Congestion Control Mechanisms in Datacenter Networks</i>	
Pantea Habibi. <i>User-Defined Gestural Interaction.</i>	2018
Harish Naik. <i>Proxemics: Characterization and applications in collaborative work</i>	2018
Hai Thanh Tran	2018
— <i>Utilizing textual content from online communities to provide better support to patients</i>	
Chair: Kyle Almryde. <i>Electronic health data visualization: A summary and critical review</i>	2017

STUDENT ORGANIZATIONS

Audio Engineering Society	Fall 2017 – Fall 2020
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School of Informatics and Computing, Indiana University, Indianapolis

Pankaj Avhad, MS (HCI) —with Davide Bolchini	2015 – 2016
Manisha Yogan, MS (HCI) —with Karl F. MacDorman	Spring 2015
Shivin Saxena, MS (HCI) —with Stephen Volda	Summer 2014

Malvika Bansal, MS (HCI) —with Stephen Voida Summer 2014
 Wei Pan, MS (HCI) —with Davide Bolchini 2012 – 2013

ADMINISTRATIVE

Scientific Community

Program Committee, MobileHCI LBW 2023

Scientific Community

Program Committee, CHI 2019, 2020, 2022

Expert Panel, Doctoral Colloquium, UbiComp/ISWC 2020

Session Chair, CHI 2019

Program Committee, CHI LBW 2019

Organizing Committee, Poster and Web Chair, GCASR 2018

University of Illinois at Chicago

External Member, Tenure-Track Search Committee, Department of Communication 2019 – 2020

External Member, Tenure-Track Search Committee, Department of Communication 2021

Department of Computer Science, UIC

Member, Graduate Committee 2021 — 2023

Member, CS Advisory Committee 2021 — 2022

Member, Tenure-Track Search Committee 2020 – 2021

Member, Tenure-Track Search Committee 2019 – 2020

Member, Tenure-Track Search Committee (with Learning Sciences) 2018 – 2019

Member, Tenure-Track Search Committee 2017 – 2018

Member, Graduate Committee Spring 2017

Marshalled CS Commencement May 2017

Indiana University–Purdue University, Indianapolis

Chair, ACM-W Chapter 2013 – 2015

Graduate Vice-president, Women in Technology (WiT) student organization 2012 – 2014

School of Informatics and Computing, Indiana University, Indianapolis

Member, Human-Centered Computing (HCC) Tenure Track Search Committee 2014 – 2015

Member, Informatics Student Government (ISG) 2012 – 2013

Stony Brook University, Stony Brook, New York

Secretary, ACM-W Chapter, Women in Computer Science (WiCS) 2009 – 2011

Juror, Hearing Board of the Academic Judiciary, Computer Science Department 2010 – 2011

OUTREACH

[S.11] Invited Speaker, Career Day, Daniel Boone Elementary School.
 Chicago, Illinois June 2019

[S.10] Invited Speaker, UIC Engineering Living-Learning Community.
 Chicago, Illinois November 2017

[S.9] Distributed Research Experiences for Undergraduates (DREU) mentor
 Chicago, Illinois Summer 2017

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- [S.8] Visiting Speaker, Introduction to Human-Computer Interaction. Recruitment talk at Fishers High School, Fishers, Indiana. November 2014
- [S.7] Visiting Speaker, Natural User Interfaces: What's so unnatural about them? Research outreach talk to high school students at Park Tudor School, Indianapolis. October 2014
- [S.6] Visiting Speaker, Introduction to Human-Computer Interaction. Research outreach talk to high school students at Park Tudor School, Indianapolis. September 2014
- [S5] Coordinator, Touchless Interaction with Large Displays. Research demo at the 2013 City of Indianapolis VEX Robotics Championship, Banker's Life Fieldhouse, Indianapolis. November 2013
- [S.4] Guest Speaker, Wall Display User Experience Research. Presented at an outreach event to 130 high school students visiting the IUPUI School of Informatics and Computing Campus from central Indiana, School of Informatics and Computing, Indianapolis, Indiana. June 2013; September 2013
- [S.3] Guest Speaker, Women in Technology, U.S. Department of State's International Visitor Leadership Program. IUPUI, Indianapolis. April 2013
- [S.2] Organizer and Emcee, Speed Presentation, Women in Technology Annual Networking Event. IUPUI Campus Center, Indianapolis, Indiana. March 2013
- [S.1] Guest Speaker, Touchless Interaction with Large Displays. Presented at an outreach event to 85 high school students visiting the IUPUI School of Informatics and Computing Campus from Providence Castro Rey High School. October 2012