

## Debaleena Chattopadhyay, Ph.D.

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| EMPLOYMENT | <b>Assistant Professor, Tenure Track</b> 2016–<br>Department of Computer Science, University of Illinois Chicago, Illinois, USA  |
|            | <b>Instructor</b> 2015<br>School of Informatics and Computing, Indiana University, Indianapolis, USA   |
| EDUCATION  | <b>Ph.D., Human-Computer Interaction</b> 2016<br>Department of Human-Centered Computing, School of Informatics and Computing<br><b>Indiana University</b> , Indianapolis, Indiana, USA<br><i>Doctoral Dissertation:</i> Understanding interaction mechanics in touchless target selection. |
|            | <b>M.S., Computer Science</b> 2011<br>Computer Science Department<br><b>Stony Brook University</b> , Stony Brook, New York, USA<br><i>Master's Thesis:</i> Multimodal tagging of human motion using skeletal tracking with Kinect.   |
|            | <b>B.Tech., Computer Science &amp; Engineering</b> 2009<br>Department of Computer Science and Engineering<br><b>West Bengal University of Technology</b> , Kolkata, West Bengal, India   |

### RESEARCH

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

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|---------------------------------|---|
| REFEREED<br>JOURNAL<br>ARTICLES | [J.11] Knowles, B., Hanson, V., L., Rogers, Y., Piper, A., M., Waycott, J., Davies, N., Ambe, A., Brewer, R., N., <b>Chattopadhyay, D.</b> , et al., (2021). The Harm in Conflating Aging with Accessibility. <i>Communications of ACM</i> .  |
|                                 | [J.10] Habibi, P. <sup>+</sup> , & <b>Chattopadhyay, D.</b> (2021). The Impact of Handedness on User Performance in Touchless Input. <i>International Journal of Human-Computer Studies</i> , 149, 102600.  |
|                                 | [J.9] Dunn Lopez, K., Chae, S., Girgis M., Fraczkowski, D., Habibi, P. <sup>+</sup> , <b>Chattopadhyay, D.</b> , & Donevant, S. (2020). Improved readability and functions needed for mHealth apps targeting patients with heart failure: An app store review. <i>Research in Nursing &amp; Health</i> , 2020; 1– 10. |
|                                 | [J.8] <b>Chattopadhyay, D.</b> , Ma T. <sup>+</sup> , Sharifi H. <sup>+</sup> , Martyn-Nemeth P. (2020). Computer-Controlled Virtual Humans in Patient-Facing Systems: Systematic Review and Meta-Analysis. <i>Journal of Medical Internet Research</i> , 22(7), e18839.  |
|                                 | [J.7] <b>Chattopadhyay, D.</b> , Verma, N., Duke, J. D., & Bolchini, D. (2018). Design and Evaluation of Trust-Eliciting Cues in Drug-Drug Interaction Alerts. <i>Interacting with Computers</i> , 30(2), 85–98.  |
|                                 | [J.6] <b>Chattopadhyay, D.</b> , Salvadori, F., O'Hara, K., & Rintel, S. (2017). Beyond presentation: Shared slideware control as a resource for collocated collaboration. <i>Human-Computer Interac-</i>   |

[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.11] Yu, J.<sup>+</sup> & **Chattopadhyay, D.** (2024). Reducing the Search Space on demand helps Older Adults find Mobile UI Features quickly, on par with Younger Adults. In Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems, *CHI*, ACM.

[C.10] Sharifi, H.<sup>+</sup>, & **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.<sup>+</sup>, 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.<sup>+</sup>, & **Chattopadhyay, D.** (2020). “Maps are hard for me”: Identifying how Older Adults Struggle with Mobile Maps. In Proceedings of the 22<sup>nd</sup> International ACM SIGACCESS Conference on Computers and Accessibility, *ASSETS*, ACM, Article 40, 1–8.

[C.7] Sakhnini, N.<sup>+</sup>, Yu, J.<sup>+</sup>, 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.<sup>+</sup>, 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-

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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.12] Swift, I.<sup>+</sup>, & **Chattopadhyay, D.** (2024). A Value-Oriented Investigation of Photoshop’s Generative Fill. GenAICHI Workshop, *CHI*, Honolulu, Hawai’i.

[E.11] Sharifi, H.<sup>+</sup>, & **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.<sup>+</sup>, & **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.<sup>+</sup>, & **Chattopadhyay, D.** (2020). Supporting Older Adults in Locating Mobile Interface Features with Voice Input. In Proceedings of the 22<sup>nd</sup> 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.<sup>+</sup>, **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 44<sup>th</sup> 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.<sup>+</sup>, 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.<sup>+</sup>, Dickens, C., Vatani, H., & Ardati, A. (2019). Promoting Patient

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Engagement Through Personalized Hospital-Stay Summaries. IEEE International Conference on Biomedical & Health Informatics, *BHI*, Chicago, USA.

[E.13] Habibi, P.<sup>+</sup>, 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.<sup>+</sup>, & **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.<sup>+</sup>, Sharifi, H.<sup>+</sup>, & **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.<sup>+</sup>, & **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.<sup>+</sup>, Yu, J.<sup>+</sup>, 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.

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[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.

ACTIVE  
GRANTS

[G.5] Center for Health Equity in Cognitive Aging: Identifying barriers to mobile ICT use in older adults with subjective cognitive complaints. \$49,971 PI, 2024–2025

[G.4] CDC-RFA-DP-23-0020: A Strategic Approach to Advancing Health Equity for Priority Populations with or at Risk for Diabetes. \$60,226 2024

[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<sup>1</sup>, 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

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<sup>1</sup>Elite 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

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### TEACHING

#### Department of Computer Science, UIC

User Experience (UX) Research Methods (CS 535) Spring 2024  
Students enrolled: 29

User Interface Design and Programming (CS 422) Fall 2023  
Students enrolled: 73, A awarded: 19

Undergraduate section—Evaluation ( $n = 22$ ): Instructor—4.09/5; Course—4.09/5  
Graduate section—Evaluation ( $n = 5$ ): Instructor—4.6/5; Course—4.6/5

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 April 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**

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**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

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|---|------------|
| 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:**

|   |       |
|---|-------|
| ACM Transactions on Computer-Human Interaction (TOCHI)                    | 2024– |
| Behaviour & Information Technology  | 2024– |
| 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

|   |               |
|---|---------------|
| Ian Swift   | Fall 2023 –   |
| Nina Sakhnini   | Fall 2019 –   |
| Hasti Sharifi   | Fall 2018 –   |
| Pantea Habibi   | Summer 2017 – |
| Ja Eun Yu   | 2017 – 2024   |
| <i>—Supporting Older Adults Navigate Feature-rich Mobile UIs with Voice Input</i> |               |

M.S. STUDENTS

|   |             |
|---|-------------|
| Mattia Chiarle (Thesis track)   | Fall 2023–  |
| Nina Sakhnini (Thesis track)  | Spring 2019 |
| <i>—Towards self-tracking personal pollution exposure using wearables</i> |             |
| Venkata Ramkiran Chevendra (Project track)                                | 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

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|--|-------------|
| 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 |
|---|------|

#### WRITTEN CRITIQUE AND PRESENTATION (WCP) COMMITTEES

|  |      |
|--|------|
| Khushboo Gupta. <i>Alignment of Large Language Models -A Critique</i>  | 2024 |
| Yuqing Liu. <i>Deep Learning for Session-based Recommendation</i>  | 2023 |
| (Chair) Md Anisur Rahman.  | 2022 |
| — <i>Implementation challenges in online controlled experimentation</i>                                      |      |
| 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 |
|---------------------------|-----------------------|

#### **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 Voida     | 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, CHI                            | 2019, 2020, 2022, 2024 |
| Program Committee, MobileHCI LBW                  | 2023                   |
| 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, Bridge to Faculty Search Committee, Department of Communication | 2024        |
| External Member, Tenure-Track Search Committee, Department of Communication      | 2021        |
| External Member, Tenure-Track Search Committee, Department of Communication      | 2019 – 2020 |

#### **Department of Computer Science, UIC**

|  |             |
|--|-------------|
| Member, Graduate Committee                                     | 2021 — 2024 |
| 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**

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|  |             |
|--|-------------|
| 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.<br>Chicago, Illinois | June 2019 |
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| [S.10] Invited Speaker, UIC Engineering Living-Learning Community.<br>Chicago, Illinois | November 2017 |
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| [S.9] Distributed Research Experiences for Undergraduates (DREU) mentor<br>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 |
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| [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 |
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| [S.6] Visiting Speaker, Introduction to Human-Computer Interaction. Research outreach talk to high school students at Park Tudor School, Indianapolis. | September 2014 |
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| [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 |
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| [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 |
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| [S.3] Guest Speaker, Women in Technology, U.S. Department of State's International Visitor Leadership Program. IUPUI, Indianapolis. | April 2013 |
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| [S.2] Organizer and Emcee, Speed Presentation, Women in Technology Annual Networking Event. IUPUI Campus Center, Indianapolis, Indiana. | March 2013 |
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| [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 Cistro Rey High School. | October 2012 |
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