

# AQUEASHA MARTIN-HAMMOND, PH.D.

Luddy School of Informatics, Computing, and Engineering, Indiana University - Indianapolis

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## RESEARCH INTEREST

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Human-Computer Interaction, Aging and Accessibility, Health Informatics, Intelligent User Interface Design

## EDUCATION

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**Ph.D. Computer Science**, Clemson University Aug. 2014

Dissertation: *Designing for Understanding: Helping Older Adults Understand Over-the-Counter Medication Information*

Advisor: Juan E. Gilbert

**M.S. Computer Science**, University of Alabama, Birmingham Aug. 2007

**B.S. Computer Science**, Tougaloo College May 2005

Minor: Mathematics

Summa Cum Laude

## ACADEMIC APPOINTMENTS

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**Associate Professor of Human-Computer Interaction** July 2023 - present  
Indiana University – Indianapolis *Indianapolis, IN*

**Assistant Professor of Human-Computer Interaction** Aug. 2016 – June 2023  
Indiana University – Indianapolis *Indianapolis, IN*

**Postdoctoral Research Associate** Aug. 2014 – July 2016  
University of Maryland, Baltimore County *Baltimore, MD*

## OTHER EMPLOYMENT AND APPOINTMENTS

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**Research Assistant** Aug. 2011 – Aug. 2014  
Reading Recovery - School of Education, Clemson University *Clemson, SC*

**Research Assistant** Aug. 2010 – Aug. 2014  
Human-Centered Computing Lab, Clemson University *Clemson, SC*

**Co-Op** May – Aug. 2011  
International Business Machines (IBM) *San Jose, CA*

**Research Intern** May – Aug. 2010  
International Business Machines (IBM) Research *San Jose, CA*

**Computer Programming Analyst** Aug. 2007- Aug. 2008  
Computer Technology Solutions *Birmingham, AL*

## PROFESSIONAL ORGANIZATION MEMBERSHIPS

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**Association for Computing Machinery (ACM) – Lifetime Member** 2008 – present

**ACM Special Interest Group in Computer-Human Interaction (SIGCHI)** 2008 – present

## PROFESSIONAL HONORS AND AWARDS

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- NSF Faculty Early Career Development (CAREER) Award, 2022 - present

- Luddy School of Informatics, Computing, and Engineering Tenure-Track/Tenured Research Award, Indiana University, 2023
- Luddy Faculty Recognition Award, Indiana University, 2023
- Clemson University Outstanding Ph.D. Student in Computer Science, Clemson University School of Computing, 2011
- Ford Foundation Pre-Doctoral Fellowship Honorable Mention, Ford Foundation, 2010
- National Science Foundation Graduate Research Fellowship Honorable Mention, NSF, 2005
- Tougaloo College Natural Sciences Division Academic Excellence Award, Tougaloo College Natural Sciences Division, 2005
- Tougaloo College Math/Computer Science Award, Tougaloo College Math and Computer Science Department, 2005
- United Negro College Fund (UNCF) Mellon Mays Fellowship, UNCF/ Mellon Mays Foundation, 2003 - 2005
- Ronald E. McNair Scholar, United States Department of Education, 2003 - 2005
- Jackson Heart Study Scholar, National Institutes of Health, National Heart, Lung, and Blood Institute, 2002 - 2005

## PUBLICATIONS

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**Legend:** C=Conference Paper, J=Journal Article, B=Book Chapter, W=Workshop Position Paper, P=Poster Abstracts, Underlined = Student Collaborator, \* = Equal contributions as author

### Journal Articles.

- J12 Cora-Cruz, M.S., Wilson, E.M., Vargas, G.B., Thompson, V., Enenmoh, I., Goffe, C., **Martin-Hammond, A.**, and Purnell, T.S. Applications of Mobile Health Technologies to Address Cardiometabolic Health Disparities in the US: A Systematic Review. *Ethnicity & Disease*. (*To Appear*)
- J11 Meng, C., **Martin-Hammond, A.**, Deal, S., and Reran, T. (2023). Improving Human Connections and Audience Satisfaction in Online Concerts and Music Conferences. *Computer Music Journal*. (*To Appear*)
- J10 Shade, M., Kovaleva, M., Harp, K., & **Martin-Hammond, A.** (2023). Older adults' pain outcomes after mHealth interventions: Scoping review. *JMIR Aging*, 6, e46976.
- J9 Tandukar, B., & **Martin-Hammond, A.** (2022). Older adults' experiences moving community online in independent living during the Covid-19 pandemic. *Gerontology & Geriatric Medicine*, 8, 23337214221124893.
- J8 Karimi, P., Plebani, E., **Martin-Hammond, A.**, & Bolchini, D. (2022). Textflow: Toward Supporting Screen-free Manipulation of Situation-Relevant Smart Messages. *ACM Trans. Interact. Intell. Syst.*, 12(4), 1–29.
- J7 **Martin-Hammond, A.** and Purnell, T. (2022). Bridging Community, History, and Culture in Personal Informatics Tools: Insights from an Existing Community-Based Heart Health Intervention for Black Americans. *Proc. ACM Hum.-Comput. Interact.* 6, GROUP, Article 29 (January 2022), 23 pages. DOI:<https://doi.org/10.1145/3492848>
- J6 Nallam, P., Bhandari, S., Sanders, J., & **Martin-Hammond, A.** (2020). A Question of Access: Exploring the Perceived Benefits and Barriers of Intelligent Voice Assistants for Improving Access to Consumer Health Resources Among Low-Income Older Adults. *Gerontology and Geriatric Medicine*, 6, 2333721420985975. (Special Issue on Aging and Technology)
- J5 **Martin-Hammond, A.**, Vemireddy, S., & Rao, K. (2019). Exploring older adults' beliefs about the use of intelligent assistants for consumer health information management: A participatory design study. *JMIR aging*, 2(2), e15381.
- J4 **Martin-Hammond, A.**, Abegaz, T., and Gilbert, J. 2015. Designing an Over-the-Counter Consumer Decision-Making Tool for Older Adults. *Journal of Biomedical Informatics* 57(2015), 113-123.

- J3 Caidi, N., Komlodi, A., Abrao, A.L., & **Martin-Hammond, A.** 2014. Collectively figuring it out: Foreign-trained health professionals and labor market integration. *LIBRES*, 24(2), 118-131.
- J2 Bates, C. C., & **Martin, A.** (2013). Using mobile technology to support literacy-coaching practices. *Journal of Digital Learning in Teacher Education*, 30(2), 60-66.
- J1 Seals, C.D., Moses, W., Nyagwencha, J., **Martin, A.**, and Clanton, K. et al., 2008. Lifelong Learning: Seniors in Second Life Continuum. *Journal of Computer Science*, 4: 1064-1070.

### Full Length Conference Papers.

- C19 Starks, T., Patil, K., and **Martin-Hammond, A.** (2023). Exploring Users' Perspectives of Mobile Health Privacy and Autonomy. *Proceedings of Pervasive Health 2023 (To Appear)*.
- C18 Karimi, P., Brady, E., **Martin-Hammond, A.**, & Bolchini, D. (2023). "I stepped into a puddle": Non-Visual Texting in Nomadic Contexts. *Proceedings of the 20th International Web for All Conference*, 32–43.
- C17 Karkera, Y., Tandukar, B., Chandra, S. & **Martin-Hammond, A.** (2023). Building Community Capacity: Exploring Voice Assistants to Support Older Adults in an Independent Living Community. *Proceedings of the* <https://dl.acm.org/doi/abs/10.1145/3544548.3581561> (Acceptance Rate 27.6%)
- C16 Harrington, C.\*, **Martin-Hammond, A.\***, and Brady, K. Examining Identity as a Variable of Health Technology Research for Older Adults: A Systematic Review. *2022 CHI Conference on Human Factors in Computing Systems*. (Acceptance Rate 24.7%)
- C15 Karimi, P., Ballard, K., Vazirani, P., Jorigay, R. T. N., & **Martin-Hammond, A.** (2022). Designing Conversational Assistants to Support Older Adults' Personal Health Record Access. *Pervasive Computing Technologies for Healthcare*, 253–271. (Acceptance Rate 47%)
- C14 Bonilla, K., Gaitan, B., Sanders, J., Khenglawt, N., & **Martin-Hammond, A.** (2022). Comparing Older and Younger Adults Perceptions of Voice and Text-based Search for Consumer Health Information Tasks. *AMIA Annual Symposium Proceedings*, 2021, 227–236.
- C13 Tandukar, B., Vazirani, P., and **Martin-Hammond, A.** 2021. "Advocacy Through Design: Partnering to Improve Online Communications and Connections in a Life Plan Community." In *Designing Interactive Systems Conference 2021*, 1695–1709. *DIS '21*. New York, NY, USA: Association for Computing Machinery. (Acceptance Rate 26.8%)
- C12 Karimi, P., Bora, P., & **Martin-Hammond, A.** (2021). Scribe: improving older adults' access to medical instructions from patient-physician conversations. In *Proceedings of the 18th International Web for All Conference* (pp. 1–11). Association for Computing Machinery.
- C11 Trajkova, M., & **Martin-Hammond, A.** (2020, April). "Alexa is a Toy": Exploring Older Adults' Reasons for Using, Limiting, and Abandoning Echo. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems* (pp. 1-13). (Acceptance Rate: 24.3%)
- C10 **Martin-Hammond, A.**, Hamidi, F., Bhalerao, T., Ali, A., Hornback, C. Means, C., and Hurst, A. (2018). Designing an Adaptive Web Navigation Interface for Users with Variable Pointing Performance. In *Proceedings of the Internet of Accessible Things (W4A '18)*. ACM, New York, NY, USA, Article 31, 10 pages. (Acceptance Rate: 58%)
- C9 Rayes, W., **Martin-Hammond, A.**, Komlodi, A., Caidi, N., and Sudin, N. (2016). An Informed Transition? International Medical Graduates Settling in the United States and Canada. In *Proceedings of ASIS&T Annual Meeting*, Copenhagen, Denmark.
- C8 **Martin-Hammond, A.**, & Gilbert, J. (2016). Examining the Effect of Automated Health Explanations on Older Adults' Attitudes Toward Medication Information. In *Proceedings of the 10th EAI International Conference on Pervasive Computing Technologies for Healthcare*. ACM.
- C7 Komlodi, A., Caidi, N., **Martin-Hammond, A.**, Rayes, W., & Sudin, N. (2016). Culturally-Situated Information Literacy: International Medical Graduates Navigating New Information Landscapes. Presented at *CaTaC'16: Culture, Technology, Communication: Common world, different futures?* At London, UK.

- C6 **Martin-Hammond, A.**, Ali, A., Hornback, C., and Hurst, A. 2015. Understanding Design Considerations for Adaptive User Interfaces for Accessible Pointing with Older and Younger Adults. Web For All (W4a) 2015 – Florence, Italy. (**Best Paper Nominee**)
- C5 **Martin, A.**, Jones, J., and Gilbert, J. 2013. A spoonful of sugar: understanding the over-the-counter medication needs and practices of older adults. In Proceedings of the 7th EAI International Conference on Pervasive Computing Technologies for Healthcare, ICST, Brussels, Belgium, 93-96 (Acceptance Rate 30%)
- C4 Bolinger, J., **Martin, A.**, & Rankin, Y. "Client TouchPoint Modeling: Making the Invisible Visible within IT Service Delivery Organizations. SRII Global Conference (SRII), 2011 Annual, vol., no., pp.685-692, March 29, 2011-April 2, 2011.
- C3 Alvarez, I., **Martin, A.**, Dunbar, J., Taiber, J., Wilson, D.M., & Gilbert, J. Voice Interfaced Vehicle User Help. In Proceedings of Automotive UI 2010, Pittsburgh, PA, November 11-12, 2010.
- C2 Wilson, D., **Martin, A.**, & Gilbert, J. 'How May I Help You' Spoken Queries for Technical Assistance. In Proceedings of the 48th Annual Southeast Regional Conference (Oxford, Mississippi, April 15-17, 2010). ACM-SE 48. ACM, New York, NY.
- C1 Morrison, D., Gilbert, J., Alnizami, H. Dawkins, S., Eugene, W., **Martin, A.** & Moses, W. Supporting License Plate Queries for First Responders Using the VoiceLETS System. In Proceedings of the 48th Annual Southeast Regional Conference (Oxford, Mississippi, April 15-17, 2010). ACM-SE 48.

### Short Conference Papers and Case Studies

- S3 **Martin-Hammond, A.**, Patil, U. & Tandukar, B. 2021. A Case for Making Web Accessibility Guidelines Accessible: Older Adult Content Creators and Web Accessibility Planning. The 23rd International ACM SIGACCESS Conference on Computers and Accessibility. Association for Computing Machinery, New York, NY, USA, Article 34, 1–6. DOI:<https://doi.org/10.1145/3441852.3476472>
- S2 **Martin-Hammond, A.**, Vemireddy, S., & Rao, K. 2018. Engaging Older Adults in the Participatory Design of Intelligent Health Search Tools. In the Proceedings of 12th EAI International Conference of Pervasive Computing Technologies for Healthcare, PervasiveHealth '18, May 21–24, 2018, New York, NY, USA.
- S1 **Martin, A.**, Rankin, Y., and Bolinger, J. Client TouchPoint modeling: understanding client interactions in the context of service delivery. In Proceedings of the 2011 annual conference on Human factors in computing systems (CHI '11). ACM, New York, NY, USA, 979-982. (Acceptance Rate 26%)

### Book Chapters

- B1 Wilson, D., **Martin, A.**, & Gilbert, J. Ed. HongYi Sun. iTech: An Interactive Virtual Assistant for Technical Communication. Management of Technological Innovation in Developing and Developed Countries. InTech: 2012 InTech. March 2012. Print.

### Workshop and Position Papers

- W6 Purnell, T. and **Martin-Hammond, A.** Identifying Opportunities for Mobile Technology to Support a Culturally Relevant Community-Based Heart Health Program. 2020 AMIA Workshop on Interactive Systems in Healthcare
- W5 Harrington, C. and **Martin-Hammond, A.** Examining Dimensions of Identity within Health-Related Technology Research for Aging Populations. 2020 AMIA Workshop on Interactive Systems in Healthcare
- W4 **Martin-Hammond, A.**, Harrington, C., and Marcu, G. 2020. Engaging Community and Clinical Partners in Collaborative Healthcare Design Research. Retrieved from <https://pervasivehealth.eai-conferences.org/2020/collab-workshop/>
- W3 **Martin-Hammond, A.**, Rao, K., Vemireddy, S., Tsai, Y., and Nallam, P., 2018. Toward Intelligent Tools to Support Older Adults' Health Information Seeking Practices. In Proceedings of the 2018 Workshop on Designing Interactions for the Ageing Population., 5 pgs, ACM CHI 2018.

- W2 **Martin-Hammond, A.**, Majumdar, S., Rao, K., and Chhikara, J. Exploring the Usefulness of Voice Input of Health Information on Smartphones for Older Adults. In Proceedings of 2017 Workshop on Designing Mobile Interactions for the Ageing Populations. ACM CHI 2017.
- W1 Rankin, Y.A, Enyedi, R., Anderson, L. & **Martin, A.** (2012). The Other Side of the Coin: User Experience from an Industry Perspective. CHI 2012 Theories Behind UX Research and How They are Used in Practice Workshop. Austin, TX, May 6, 2012.

### Refereed Posters and Abstracts

- P9 Bonilla, K., & **Martin-Hammond, A.** (2022). Usable Privacy Approaches to Improving the Transparency of Conversational Interactions. Women in Cyber Security (WiCys) Conference, Cincinnati, Ohio. (Student Poster)
- P8 Karimi, P., & **Martin-Hammond, A.** (2020, September). Understanding barriers to medical instruction access for older adults: implications for AI-assisted tools. In Adjunct Proceedings of the 2020 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2020 ACM International Symposium on Wearable Computers (pp. 42-45).
- P7 Bonilla, K., & **Martin-Hammond, A.** (2020). Older adults' perceptions of intelligent voice assistant privacy, transparency, and online privacy guidelines. In Sixteenth Symposium on Usable Privacy and Security (SOUPS 2020).
- P6 Sanders, J., Purnell, T.S., Charleston, J., Glenn-Smith, I., and **Martin-Hammond, A.** A Circle of Friends: Persuasive Tools to Improve Heart Health. In Companion of the 2020 ACM International Conference on Supporting Group Work (GROUP '20). Association for Computing Machinery, New York, NY, USA, 107–110. DOI:<https://doi.org/10.1145/3323994.3369885> (**Best Poster Award**)
- P5 Sanders, J. and **Martin-Hammond, A.** 2019. Exploring autonomy in the design of an intelligent health assistant for older adults. In Proceedings of the 24th International Conference on Intelligent User Interfaces: Companion (IUI '19). ACM, New York, NY, USA, 95-96. DOI: <https://doi.org/10.1145/3308557.3308713>
- P4 Khengwlat, K., Bhandari, S., Sharma, M., and **Martin-Hammond, A.** A Persuasive Interface for Engaging Arthritis Patients in Physical Activity. In Proceedings Workshop on Interactive Systems in Healthcare, CHI 2019.
- P3 **Martin-Hammond, A.**, Hamidi, F., Bhalerao, T., Ali, A., Hornback, C., Means, C., and Hurst, A. 2017. The Participatory Design of an Adaptive Interface to Support Users with Changing Pointing Ability. In Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '17). ACM, New York, NY, USA, 343-344. DOI: <https://doi.org/10.1145/3132525.3134810>
- P2 **Martin-Hammond, A.**, Ali, A., Means, C., Hornback, C., & Hurst, A. (2016). Supporting Awareness of Pointing Behavior among Diverse Groups. In Proceedings of the 10th EAI International Conference on Pervasive Computing Technologies for Healthcare. ACM.
- P1 Bates, C.C. and **Martin, A.** Exploring the Use of ICTs in Literacy Coaches' Note Taking and Reflective Practices. In Proceedings of the 2013 American Educational Research Association Annual Meeting. San Francisco, CA. April 2013.

### Doctoral Consortium

- D1 **Martin, A.** (2011). Designing Health Systems for Understanding. 5th Doctoral Consortium on Sociotechnical Issues in Medical Informatics. October 21, 2011.

### Non-Refereed White Papers and Lightly Reviewed Abstracts

- N7 Harrington, C. N., Jelen, B., Lazar, A., **Martin-Hammond, A.**, Pradhan, A., Reeder, B., & Siek, K. (2021). Taking Stock of the Present and Future of Smart Technologies for Older Adults and Caregivers. In arXiv [cs.CY]. arXiv. <http://arxiv.org/abs/2104.00096>
- N6 Bates, C.C., Bryfczynski, S., **Martin, A.**, and Pargas, R. Digital Running Records: The Development and Exploration of an iPad App. Literacy Research Association 2013 Annual Conference, December 2013.

- N5 **Martin, A.** (2012). Designing for Understanding: Helping Older Consumers Understand Over-the-Counter Drug Risks. 8th Annual Aging Research Day. March 9, 2012, Greenville Hospital System University Medical Center, Greenville, SC
- N4 **Martin, A.** (2011). Exploring Opportunities for Multimodal Interaction in Computer Physician Ordering Entry Systems. Social Science Research Council Mellon-Mays Summer Institute. June 15 – 17, 2011, Princeton University, Princeton, NJ.
- N3 **Martin, A.** (2011). Opportunities for Multimodal Interaction in Computer Physician Ordering Entry Systems. EL Alliance National Meeting. April 2 – 3, 2011, San Francisco, CA.
- N2 **Martin, A.** (2011). Alphanumeric Recognition Algorithm. 2011 ADMI Conference. April 14 – 16, 2011, Clemson University, Clemson, SC.
- N1 **Martin, A.**, and Ekandem, J. (2010). VoiceText. 2010 CHI Mentoring (CHIME) Workshop. April 9 – 10, 2010, in conjunction with CHI 2010, Atlanta, GA.

## GRANTS AND RESEARCH FUNDING

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### Active

- CAREER: Conversational User Interfaces to Support Social Wellness Among Older Adults  
Role: PI, Agency: NSF  
Amount: \$543,539.00  
Dates: May 2022 – Apr. 2027
- Health Freedom Path to Wellness: A Culturally-Relevant and Patient-Centered mHealth Intervention to Promote Cardiovascular Health Equity  
Role: MPI, Agency: NIH  
PI: Tanjala Purnell, Ph.D.  
Amount: \$172,971.00 (IU Portion)  
Dates: July 2021 – July 2024
- SMALL: Designing Autonomy -Preserving Interactions in Intelligent Assistants for Older Adults  
Role: PI, Agency: NSF  
Co-PI: Davide Bolchini  
Amount: \$498,904  
Dates: Nov. 2021– Oct. 2024

### Completed

- Workshop: Doctoral Consortium for ASSETS 2022  
Role: PI, Agency: NSF  
Amount: \$29,990  
Dates: Aug. 2022 – Aug. 2023
- Culturally Relevant Collaborative Health Tracking Tools for Motivating Heart-Healthy Behaviors Among African Americans  
Role: PI, Agency: Google  
Co-PI: Tanjala Purnell, Ph.D.  
Amount: \$60,000 (\$35,000 IU portion)  
Dates: Oct. 2020 – Oct. 2021
- EMPOWER Research Mentoring Grant  
Role: PI, Agency: Indiana University  
Amount: \$10,000  
Dates: Jan. 2019 – May 2020

## INVITED TALKS AND PRESENTATIONS

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## **Local**

1. Title: Help Wanted: Who Do We Need to Help Us Age at Home? Panel  
Organization: State of Aging in Central Indiana  
Date: Nov. 2, 2023
2. Title: Designing Intelligent Interactions for Aging  
Organization: Music Technology Department, IUPUI  
Date: Oct. 27, 2020
3. Title: Designing and Developing Interactive Technologies to Support Aging Well  
Organization: Indiana University -Minority Serving Institutions Stem Initiative  
Date: Jul. 2018
4. Title: Designing and Developing Interactive Technologies to Support Aging Well  
Organization: Luddy School of Informatics - Indiana University Bloomington  
Date: Mar. 3, 2017

## **Regional**

1. Title: Designing Intelligent Interactions to Support Aging Well  
Organization: Dr. Frederica Darema Lecture Series in Computer Science, Illinois Tech  
Date: Nov. 3, 2022
2. Title: Designing for Health Literacy: Exploring Emerging Intelligent Technologies to Support Older Adults' Health Information Access and Management  
Organization: Network of the National Library of Medicine, Region 6  
Date: Nov. 10, 2022
3. Title: Designing Intelligent Interactions for Aging  
Organization: Indiana Usability Professionals Association  
Date: Nov. 12, 2020

## **National**

1. Title: AI for Health Equity Panel  
Organization: AIM-AHEAD, Data Science Training Core (DSTC)  
Date: June 28, 2022
2. Title: Designing Intelligent Interactions for Aging  
Organization: Computer Science Department Research Speaker Series – Morgan State University  
Date: Oct. 7, 2021
3. Title: Pathways to Academic Careers for HBCU Students Panel  
Organization: Center for Connected Multimodal Mobility, Clemson University and Morgan State  
Date: Aug. 26, 2021
4. Title: STEM: Journey to a Successful Career in Some of the Most Challenging Professions Panel  
Organization: Crosstown High – Memphis, TN  
Date: March 26, 2021
5. Title: Personalized Interfaces to Support Older Adults' Medication Search  
Organization: Connections in Smart Health Workshop  
Date: Sep. 2018
6. Title: Designing Intelligent Interactions for Aging  
Organization: Computer Science Department, Morgan State University  
Date: Oct. 7, 2021

## **TEACHING**

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Table 1: Undergraduate Courses

Course No.	Title	Format	Role	Term	Enrollment
INFO-H483/583	Conversational User Interface Design	Lecture	Instructor	Fall 2021	2
IS403	User Interface Design	Lecture	Instructor	Spring 2015	NR
COMP 1000	Personal Computing Applications	Lab	GTA	Fall 2008	NR
COMP 1000	Personal Computing Applications	Lab	GTA	Spring 2009	NR
COMP 1000	Personal Computing Applications	Lab	Coordination Team	Spring 2009	NR

Table 2: Graduate Courses

Course No.	Title	Format	Role	Term	Enrollment
INFO-H543	Interaction Design Methods (Section 28690)	Lecture	Instructor	Fall 2023	54
INFO-H543	Interaction Design Methods (Section 24665)	Lecture	Instructor	Fall 2023	42
INFO-H543	Interaction Design Methods (Section 25358)	Lecture	Instructor	Fall 2022	49
INFO-H543	Interaction Design Methods (Section 32716)	Lecture	Instructor	Fall 2022	48
INFO-H583	Conversational User Interface Design	Online	Instructor	Spring 2022	25
NEWM-510	Web Database Development	Lecture	Instructor	Spring 2022	32
INFO-H543	Interaction Design Methods	Lecture	Instructor	Fall 2021	44
NEWM-510	Web Database Development	Lecture	Instructor	Spring 2021	13
INFO-H543	Interaction Design Methods	Lecture	Instructor	Fall 2020	11
NEWM-510	Web Database Development	Lecture	Instructor	Spring 2020	25
INFO-H543	Interaction Design Methods	Lecture	Instructor	Fall 2019	38
NEWM-510	Web Database Development	Lecture	Instructor	Spring 2019	19
INFO-H543	Interaction Design Methods	Lecture	Instructor	Fall 2018	28
NEWM-510	Web Database Development	Lecture	Instructor	Spring 2018	13
NEWM-510	Web Database Development	Lecture	Instructor	Spring 2017	18
INFO-H543	Interaction Design Methods	Lecture	Instructor	Fall 2016	35
IS729	Human-Centered Design	Lecture	Co-Instructor	Spring 2016	NR

## RESEARCH ADVISING AND MENTORING

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### Ph.D. Student Advising - Primary Advisor & Chair

1. Thomas Starks, Informatics, Ph.D. Student, Aug. 2020 - present
2. Pegah Karimi, Informatics, Ph.D. Candidate, Aug. 2019 - present

### Ph.D. Student Advising - Dissertation Committees

1. Chuiyuan Meng, Music Technology, Ph.D. Committee Member, July 2021 - present
2. Sarah Nikkhah, Informatics, Ph.D. Committee Member, Oct. 2020 – May 2023
3. Luiz Henrique Cavalcanti, Informatics, Ph.D. Committee Member, May 2017 – Aug. 2019

### Ph.D. Student Directed Learning Credit Instruction

1. Chuiyuan Meng, Music Technology Ph.D. Student, Research Mentor, Aug. 2021 - Dec. 2021
2. Milka Trajkova, Informatics Ph.D. Student Rotation, Research Mentor, Jan. 2019 - May 2019
3. Jeremy Heyer, Informatics Ph.D. Student Rotation, Research Mentor, Aug. 2019 - Dec. 2019
4. Milka Trajkova, Informatics Ph.D. Student Rotation, Research Mentor, Aug. 2018 - Dec. 2018
5. Luis Henrique Cavalcanti, Informatics Ph.D. Student Rotation, Research Mentor, Jan. 2017 - May 2017
6. Shawn Dai, Informatics Ph.D. Student Rotation, Research Mentor, May 2017-Aug. 2017

### Master's Student Thesis Advising - Primary Advisor & Chair



1. Shweta Singh, Informatics M.S. Student, Primary Advisor, Aug. 2023-present
2. Pranali Shinde, Informatics M.S. Student, Primary Advisor, Aug. 2022 – May 2023

#### **Master's Student Thesis Advising - Committees**

1. Neha Shekhar Patil, Informatics M.S. Student, Committee Member, Feb. 2019 - Aug. 2019

#### **Master's Student Research Supervision**

1. Elmira Rashidi, Research Assistant - HCI, Supervisor, Nov. 2023-present
2. Rachana Nataraj, Research Assistant - HCI, Supervisor, Oct. 2023-present
3. Chia-Hsin Lee, Research Assistant - HCI, Supervisor, Oct. 2023-present
4. Apurva Aniruddha Ulabhaje, Research Assistant - HCI, Supervisor, Oct. 2023-present
5. Kasturi Rahul Joshi, Research Assistant - HCI, Supervisor, Oct. 2023-present
6. Ami Himanshu Sanghvi, Research Assistant - HCI, Supervisor, Aug. 2023-present
7. Mency Lobo, Research Assistant - HCI, Supervisor, Aug. 2023-present
8. Santosh Kavanadala Sree Hari, Research Assistant - HCI, Supervisor, Aug. 2022-present
9. Kshitij Marathe, Research Assistant - HCI, Supervisor, Aug. 2022-present
10. Kshitij Prashant Patil, Research Assistant - HCI, Supervisor, Aug. 2022-present
11. Gauri Vedak, Research Assistant - HCI, Supervisor, May 2022-present
12. Tinkle Mittal, Research Assistant - HCI, Supervisor, May 2022-present
13. Aditi Shukla, Research Assistant - HCI, Supervisor, May 2022-May 2023
14. Radhika Bezawada, Research Assistant - HCI, Supervisor, May 2022-May 2023
15. Yukta Karkera, Research Assistant - HCI, Supervisor, Aug. 2021 -May 2023
16. Anurag Harishchandrakar, Research Assistant - HCI, Supervisor, Jan. 2022 -May 2023
17. Prachetas Gumaste, Research Assistant - HCI, Supervisor, Aug. 2022 -Dec. 2022
18. Sowmya Chandra, Research Assistant - HCI, Supervisor, Aug. 2019 - May 2022
19. Barsa Tandukar, Research Assistant - HCI, Supervisor, Aug. 2020 - May 2021
20. Haseeb Khan, Research Assistant - Data Science, Supervisor, Jan. 2020 - May 2021
21. Mengmeng Yu, Research Assistant - HCI, Supervisor, Jan. 2020 - May 2020
22. Pooja Vazirani, Research Assistant - HCI, Supervisor, Jan. 2019 - May 2021
23. Yi Shan Tsai, Research Assistant - HCI, Supervisor, Jan. 2018 - Dec. 2018
24. Siddhant Bhandari, Research Assistant - HCI, Supervisor, June. 2018 - May 2019
25. Noami Khenglwit, Research Assistant - HCI, Supervisor, June. 2018 - Dec. 2019
26. Monica Sharma, Research Assistant - Data Science, Supervisor, June. 2019 - Aug. 2019
27. Phani Nallam, Research Assistant - HCI, Supervisor, Jan. 2018 - May 2019
28. Sravani Vemireddy, Research Assistant - Health Informatics, Supervisor, May 2017 - Aug. 2017
29. Swarnamouli Majumdar, Research Assistant - Data Science, Supervisor, Aug. 2016 - May 2017
30. Kartik Rao, Research Assistant - HCI, Supervisor, Aug. 2016 - May 2018

#### **Master's Student Directed Learning Credit Instruction**

1. Anusha Malla, Independent Study, Research Mentor, Aug. 2023 - present
2. Uday Madarapu, Independent Study, Research Mentor, Aug. 2023 - present
3. Tinkle Mittal, Independent Study, Research Mentor, Aug. 2023 - present
4. Uday Madarapu, Independent Study, Research Mentor, Aug. 2022 - Dec. 2022
5. Ravi Teja Narasimha Jorigay, Independent Study, Research Mentor, Jan. 2021 - May 2021
6. Meenal Jakatdar, Independent Study, Research Mentor, Aug. 2020 - Dec. 2020
7. Parishmita Bora, Independent Study, Research Mentor, Aug. 2020 - Dec. 2020
8. Szu Yu Yang, Independent Study, Research Mentor, Aug. 2019 - Dec. 2019
9. Swaroop John, Independent Study, Research Mentor, Aug. 2019 - Dec. 2019
10. Yuewei Wang, Independent Study, Research Mentor, Jan. 2019 - May 2019
11. Niranjana Kshirsagar, Independent Study, Research Mentor, Jan. 2019 - May 2019

### **Undergraduate Student Directed Learning Credit Instruction**

1. Karen Bonilla, Undergraduate Capstone, Research Mentor, Aug. 2021 – Dec. 2021
2. Brian Gaitan, Undergraduate Capstone, Research Mentor, Aug. 2021 – Dec. 2021
3. Mukund Yadav, Undergraduate Capstone, Research Mentor, Aug. 2021 – Dec. 2021
4. Andres Calvillo, Undergraduate Capstone, Research Mentor, Jan. 2021 – May 2021
5. Obaid Ameen, Undergraduate Capstone, Research Mentor, Jan. 2018 – May 2018
6. Naomi Khenglawt, Undergraduate Capstone, Research Mentor, Jan. 2018 – May 2018
7. Desmond McCall, Undergraduate Capstone, Research Mentor, May 2017 – June 2017

### **Undergraduate Research Mentoring**

1. Sam Mayer, 1st Year Research Experience Program, Mentor, October 2023 - present
2. Eli Fafa Doe, Diversity Research Scholars Program, Mentor, August 2023 - present
3. Vanya Hill, Indiana LSAMP, Mentor, June 2023 – Aug. 2023
4. Justine Mukashyaka, Indiana LSAMP, Mentor, June 2023 – Aug. 2023
5. Karen Bonilla, Indiana LSAMP and UROP and Honors Credit and Undergraduate RA, Mentor, May 2019 – May 2023
6. Zachary Harris, Indiana LSAMP, Mentor, May 2022 – Aug. 2022
7. Djamel Almabouada, Indiana LSAMP, Mentor, May 2022 – Aug. 2022
8. Chiko Nwachukwu, Indiana LSAMP and Honors Credit and Undergraduate RA, Mentor, May 2020 – May 2021
9. Kalista Ballard, Indiana LSAMP and UROP, Mentor, May 2020 – May 2021
10. Brian Gaitan, Indiana LSAMP, Mentor, May 2019 – Aug. 2019
11. Jamie Sanders, Undergraduate RA, Mentor, Aug. 2018 – Dec. 2019

### **SERVICE**

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#### **University Service - Department**

- Web Development Lecturer Search Committee, Committee Member, Aug. 2022 – Dec. 2022
- SOIC Budgetary Affairs Committee, Committee Member, Aug. 2022 – May 2023

- Research Colloquia Committee, Chair, Sep. 2021 – May 2022
- Awards Committee, Committee Member, Sep. 2018 – May 2022
- Data Science Faculty Search Committee, Committee Member, Nov. 2021 – Apr. 2022
- Research Colloquia Committee, Member, Sep. 2020 – May 2021
- Research Colloquia, Chair, Sep. 2018 – May 2020
- BA in AI Taskforce, Member, Jan. 2020 – May 2020
- Faculty Policy Committee, Committee Member, Sep. 2018 – May 2020
- Data Science Faculty Search Committee, Committee Member, Nov. 2016 – Mar. 2017

### **University Service - Luddy School**

- School Level Promotion and Tenure Committee, Committee Member, Aug. 2023 - present
- Inaugural Computer Science Chair and Tenured Faculty Search Committee, Committee Member, Aug. 2023 - present
- INFO C100 Informatics Foundations: What is Human- Computer Interaction?, Informatics Cognate Video Interview, Oct. 2022
- iAI (IU Artificial Intelligence Institute) Marketing Video, Interview, Aug. 2022
- IUPUI Diversity, Equity, and Inclusion, SOIC Representative, Aug. 2022 – May 2023
- iDew Computing by Design Workshops for Teachers, SOIC Faculty Participant, July 2021
- Diversity, Equity, and Inclusion Strategic Working Group HCC Faculty Representative, Committee Member, Oct. 2020 – May 2021
- Library and Information Science Tenure-Track Faculty Search Committee, Committee Member, Nov. 2018 – Feb. 2019
- Informatics Diversity-Enhanced Workforce (iDew) Student, resentations Juror Judge, Dec. 2018
- Informatics Diversity-Enhanced Workforce (iDew) Student Presentations, Juror Judge, May 2018
- Informatics Diversity-Enhanced Workforce (iDew) Student Presentations, Juror Judge, May 2017
- Dinner and Dialog with the Dean for African American Students in SOIC, Committee Member, Mar. 2017 – Apr. 2017
- Informatics Diversity-Enhanced Workforce (iDew) Student Presentations, Juror Judge, Dec. 2016

### **University Service - University Level**

- IU Research Media Campaign – Artificial Intelligence Focus - Office of the Vice President for Research, Interview and BRoll Video with Community Center, Nov. 2022

### **Professional Service - Local**

- IU Office of the Vice Chancellor for Research Research Support Funds Grant (RSFG), Internal Proposal Reviewer, Oct. 2022
- Toyota Mobility Foundation Design Sprint Workshop, Faculty Organizing Team, Apr. 2022
- Indiana University Polis Center State of Aging Report, Advisory Committee Member, Apr. 2022 – May 2023

### **Professional Service - National**

- National Science Foundation, Ad-Hoc Reviewer, December 2023
- National Science Foundation, Review Panel Member – FW-HTF, June 2023

- National Science Foundation, Review Panel Member – IIS: Human-Centered Computing, May 2023
- AIM-AHead Coordinating Center Northeast Hub, External Advisory Board Member, Feb. 2022 – May 2023
- National Science Foundation, Review Panel Member – CCRI Grands, Nov. 2022 – Dec. 2022
- National Science Foundation, Review Panel Member – FW-HTF, June 2022
- National Science Foundation, Review Panel Member – IIS: Human-Centered Computing, Mar. – Apr. 2022
- National Science Foundation, Review Panel Member – Broadening Participation in Computing Dec. 2020 – Jan. 2021
- National Science Foundation, Ad-Hoc Reviewer, May 2019

### **Professional Service - International**

- 2024 CHI Conference on Human Factors in Computing, Associate Chair (AC) Aging and Accessibility, Sep. 2023-present
- OECD's AI and the Future of Skills (AIFS) Project - PISA Artificial Intelligence Science Test Assessment, Expert Assessment/Reviewer, Aug. 2022 – Sep. 2022
- 2023 ACM CHI Conference on Human Factors in Computing Systems, Reviewer, Sep. 2022 – Feb. 2023
- 2022 ASSETS Conference, Doctoral Consortium Co-Chair, Nov. 2021 – Nov. 2022
- 2022 Designing Interactive Systems, Program Committee, Feb. 2022 – May 2022
- 2021 CHI Conference on Human Factors in Computing, Paper's Awards Committee, Dec. 2021 – Mar. 2022
- 2021 CHI Conference on Human Factors in Computing, Associate Chair (AC) Health, Sep. 2021 – Feb.2022
- 2021 ASSETS Conference, Session Chair, Oct. 2021
- 2021 ASSETS Conference, Doctoral Consortium, Sep. 2021 – Oct. 2021
- GROUP 2022, Program Committee, Apr.2021 – Aug.2021
- Computers in Human Behavior, Reviewer, Feb. 2021 – May 2021
- Web4All Conference, Program Committee, Jan. 2021 – Feb. 2021
- 2020 ASSETS Conference, Session Chair, October 2020
- 2020 ASSETS Conference, Program Committee, May 2020 – Jul. 2021
- 2020 ASSETS Conference, Doctoral Consortium Mentor, Sep. 2020 – Jan. 2021
- Pervasive Health Technical, Program Committee Member, Jan. 2020 – Mar. 2020
- 2020 ACM CHI Conference on Human Factors in Computing Systems, Associate Chair (AC) Aging and Accessibility, Sep. 2020 – Jan. 2021
- 2019 ACM CHI Conference on Human Factors in Computing Systems, Associate Chair (AC) Aging and Accessibility, Sep. 2019 – Jan. 2020
- National Society of Blacks in Computing, Panelist, Aug. 2019
- 2019 ASSETS Conference, Student Research Competition Reviewer, Jun. 2019 – Jul. 2019
- 2019 ASSETS Conference, Program Committee, May 2019 – Jun. 2019
- 2019 Richard TAPIA Celebration of Diversity in Computing, Doctoral Consortium Reviewer, Mar. 2019 – Apr. 2019
- Pervasive Health, Technical Program Committee Member, Jan. 2019 – Mar. 2019
- iConference Dissertation Awards Committee, Reviewer/Judge, Nov. 2018 – Jan. 2019

- ACM CHI Conference on Human Factors in Computing System, Associate Chair (AC) Understanding Users, Oct. 2018–Dec. 2018
- iConference Symposium, Reviewer, Sep. 2018 – Nov.2018
- TACCESS Journal, Reviewer, Jul. 2018 – Aug. 2018
- PLOS One Journal, Reviewer, Apr. 2018 – May 2018
- ASSETS Student Research Competition, Reviewer, Jun. 2018 – Jul. 2018
- 2018 ASSETS Conference, Program Committee, Apr. 2018 – Jul. 2018
- ACM UIST Conference, Reviewer, Apr. 2018 – Jun. 2018
- ACM DIS Conference, Reviewer, Jan. 2018 – Feb.2018
- Pervasive Health, Technical Program Committee Member, Jan. 2018 – Mar. 2018
- Web4All Conference, Program Committee Member, Jan. 2018 – Feb. 2018
- ACM CHI Conference on Human Factors in Computing System, Reviewer, Oct. 2017 – Nov. 2017
- Pervasive Health, Technical Program Committee, Member Jan. 2017 – Mar. 2017
- Web4All Conference, Program Committee Member, Jan. 2017 – Feb. 2017
- ACM CHI Conference on Human Factors in Computing System, Late-Breaking Work Reviewer, Jan. 2017 – Feb. 2017
- ASSETS Conference 2017, Publicity Chair, Oct. 2016–Oct. 2017
- ACM CHI Conference on Human Factors in Computing System, Associate Chair (AC) Health, Accessibility, and Aging Committee Member, Oct. 2016–Dec.2016
- International Journal of Human- Computer Studies, Reviewer, May 2016–Dec. 2016
- ASSETS Conference 2016, Session Chair, Oct. 2016