

APPOINTMENTS

09/2022-present	College of Information & Computer Sciences, University of Massachusetts Amherst
11/2020-06/2022	Assistant Professor Adjunct Assistant Professor
09/2020-08/2022	Paul G. Allen School of Computer Science & Engineering, University of Washington Postdoctoral Scholar <i>Mentors: James Fogarty and Gary Hsieh</i>

EDUCATION

09/2014-08/2020	Doctor of Philosophy - Computer Science & Engineering , University of Washington <i>Advisor: James Fogarty</i> <i>Committee: James Fogarty, Sean A. Munson, Julie A. Kientz, Wanda Pratt, & Anind K. Dey</i> Dissertation: Designing Personal Health Technologies for Translating Population-Level Evidence into Personal Understanding
09/2014-12/2016	Master of Science - Computer Science & Engineering , University of Washington
08/2011-12/2012	Master of Science - Computer Science , Georgia Institute of Technology
06/2007-06/2011	Bachelor of Engineering - Computer Engineering , Gujarat University

AWARDS & HONORS

2025	NIA P30 Pilot Award, PI \$269k
2025	NSF CAREER Award, sole-PI \$660k
2025	Oral Presentation (Top 5%), AASLD 2025 (for W.20)
2025	Best Paper Award (Top 1%), CHI 2025 (for J.14)
2025-28	Manning Faculty Fellow
2025	UMass HFA and CICS Collaborative Seed Fund, co-PI \$20k
2024-26	UMass STRIDE Faculty Fellow
2024	PIT (Public Interest Technology) Faculty Fellow \$6k
2024	Special Recognition for Outstanding Review for CHI 2019, 2021, 2023, 2024
2023	Special Recognition for Outstanding Review, IMWUT 2023
2023	UMass Institute of Applied Life Sciences Research Thrust Award, co-PI ~\$35k
2022	UW Population Health Initiative Pilot Grant, co-Investigator ~\$100k
2022	CSE Postdoc Travel Award (for W.14)
2019	Travel Grant, ICTDX 2019
2018	Honorable Mention Award (Top 5%), DIS 2018 (for J.4)
2018	UbiComp/ISWC Student Travel Grant
2017	Honorable Mention Award (Top 5%), CHI 2017 (for J.2)
2016	Runner-up, People's Choice Award (for P.3)
2016	Workshop on Interactive Systems in Healthcare (WISH) Travel Award (for W.3)
2014	Three-Sixty Fellowship - Computer Science & Engineering at University of Washington

REFEREED JOURNAL & CONFERENCE PUBLICATIONS

2026	J.22	RubRIX: Rubric-Driven Risk Mitigation in Caregiver-AI Interactions Drishti Goel, Jeongah Lee, Qiuyue Joy Zhong, Violeta J. Rodriguez, Daniel S. Brown, <i>Ravi Karkar</i> , Dong Whi Yoo, and Koustuv Saha <i>Findings of the Association for Computational Linguistics (ACL Findings 2026)</i>
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- J.21 Mapping Caregiver Needs to AI Chatbot Design: Strengths and Gaps in Mental Health Support for Alzheimer's and Dementia Caregivers
Jiayue Melissa Shi, Dong Whi Yoo, Keran Wang, Violeta J. Rodriguez, Ravi Karkar, and Koustuv Saha
ACM Transactions on Computing for Healthcare (ACM Health 2026)
- J.20 CASEbot: A Conversational Agent for Structuring and Personalizing the Design of Self-Experiments in Personal Health
Sabrina Zaman Ishita*, Sidharth Kaliappan*, Mashrur Rashik, Daniel A. Epstein, and Ravi Karkar
(* = co-first authors)
ACM Conference on Human Factors in Computing Systems (CHI 2026)
- J.19 High Accuracy and Hidden Disparities: Investigating Foundation Model Performance in Clinical Cognitive Assessment
Abhay Sheel Anand, Deepak Ganesan, and Ravi Karkar
ACM Conference on Human Factors in Computing Systems (CHI 2026)
- 2025 J.18 Health Tech for the People (HT4P): A Transdisciplinary Research Initiative Focused on Artificial Intelligence Tech Ethics and Design for Health Justice
Rachel (Rae) Walker, Jess Dillard-Wright, Ravi Karkar, Joohyun Chung, Jason Molony, & Cory Ellen Gatrall
Nursing Outlook (Nurs Outlook 2025)
- J.17 A Systematic Review of Unmet Needs of Older Adults in Home Settings and Their Implications for Novel Technological Solutions
Andrew Dolman, Sidharth Kaliappan, Yanling Zhou, Divija Palleti, Jenna Marquard, Sunghoon Lee, Ravi Karkar, & Holly Jimison
Innovation in Aging (Innov Aging 2025)
- J.16 Balancing Caregiving and Self-Care: Exploring Mental Health Needs in Alzheimer's and Dementia Caregiving
Jiayue Melissa Shi, Keran Wang, Dong Whi Yoo, Ravi Karkar, & Koustuv Saha
Proceedings of the ACM: Human-Computer Interaction (CSCW 2025)
- J.15 Online Communities as a Support System for Alzheimer's Disease and Dementia Care: Large-Scale Exploratory Study
Sidharth Kaliappan, Chunyu Liu, Yoshee Jain, Ravi Karkar, & Koustuv Saha
Journal of Medical Internet Research Aging (JMIR Aging)
- J.14 Deploying and Examining Beacon for At-Home Patient Self-Monitoring with Critical Flicker Frequency
Richard Li, Philip Vutien, Sabrina Omer, Michael Yacoub, George N Ioannou, Ravi Karkar, Sean A Munson, & James Fogarty
ACM Conference on Human Factors in Computing Systems (CHI 2025)
Best Paper Award (Top 1%)
- J.13 SCOPE: Examining Technology-Enhanced Collaborative Care Management of Depression in the Cancer Setting
Anant Mittal, Tae E. Jones, Ravi Karkar, Jina Suh, Spencer Williams, Yihao Zheng, Lydia M Andris, Nicole Bates, Amy M. Bauer, Ty W. Lostutter, Jesse R. Fann, James Fogarty, & Gary Hsieh
Proceedings of the ACM: Human-Computer Interaction (CSCW 2025)
- J.12 AI vs. Humans for Online Support: Comparing the Language of Responses from LLMs and Online Communities of Alzheimer's Disease
Koustuv Saha, Yoshee Jain, Chunyu Liu, Sidharth Kaliappan, & Ravi Karkar
ACM Transactions on Computing for Healthcare (ACM Health 2025)
- 2024 J.11 Hardware-Assisted Privacy-Preserving Multi-Channel EEG Computational Headwear
Abdul Aziz*, Bhawana Chhaglani*, Amirmohammad Radmehr, Joseph Collins, Jeremy Gummeson, Sunghoon Ivan Lee, Ravi Karkar, & Phuc Nguyen (* = co-first authors)
IEEE-EMBS International Conference on Body Sensor Networks (BSN)
- 2023 J.10 Evaluating a Novel, Portable, Self-Administered Device ("Beacon") that Measures Critical Flicker Frequency as a Screening Test for Hepatic Encephalopathy

Philip Vutien*, Richard Li*, Ravi Karkar, Sean A. Munson, James Fogarty, Kara Walter, Michael Yacoub, & George N. Ioannou (* = co-first authors)
American Journal of Gastroenterology (AJG)

- 2022 J.9 Using Health Concept Surveying to Elicit Usable Evidence: Case Studies of a Novel Evaluation Methodology
Alex Mariakakis, Ravi Karkar, Shwetak N Patek, Julie A Kientz, James Fogarty, & Sean A Munson
Journal of Medical Internet Research Human Factors 9, 1 (JMIR)
- 2020 J.8 The Importance of Starting with Goals in N-of-1 Studies
Sean A Munson, Jessica Schroeder, Ravi Karkar, Julie A Kientz, Chia-Fang Chung, & James Fogarty
Frontiers in Digital Health 2, 3 (Frontiers)
- 2019 J.7 Examining Opportunities for Goal-Directed Self-Tracking to Support Chronic Condition Management
Jessica Schroeder, Ravi Karkar, Natalia Murinova, James Fogarty, & Sean A. Munson
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies 4, 1 (IMWUT)
- 2018 J.6 Beacon: Designing a Portable Device for Self-Administering a Measure of Critical Flicker Frequency
Ravi Karkar, Rafal Kocielnik, Xiaoyi Zhang, James Fogarty, George N. Ioannou, Sean A. Munson, & Jasmine Zia
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies 2, 3 (IMWUT)
- J.5 A Patient-Centered Proposal for Bayesian Analysis of Self-Experiments for Health
Jessica Schroeder, Ravi Karkar, James Fogarty, Julie A. Kientz, Sean A. Munson, & Matthew Kay
Journal of Healthcare Informatics Research (JHIR)
- J.4 Examining Self-Tracking by People with Migraine: Goals, Needs, and Opportunities in a Chronic Health Condition
Jessica Schroeder, Chia-Fang Chung, Daniel A. Epstein, Ravi Karkar, Adele Parsons, James Fogarty, Sean A. Munson, & Natalia Murinova
ACM SIGCHI Conference on Designing Interactive Systems (DIS 2018)
Honorable Mention Award (Top 5%)
- 2017 J.3 DigiTouch: Reconfigurable Thumb-to-Finger Interaction for Input and Text Entry for Head-mounted Displays
Eric Whitmire, Mohit Jain, Divye Jain, Greg Nelson, Ravi Karkar, Shwetak Patel, & Mayank Goel
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies 1, 3 (IMWUT)
- J.2 TummyTrials: A Feasibility Study of Using Self-Experimentation to Detect Individualized Food Triggers
Ravi Karkar, Jessica Schroeder, Daniel Epstein, Laura Pina, Jeffrey Scofield, James Fogarty, Julie Kientz, Sean Munson, Roger Vilardaga, & Jasmine Zia
ACM Conference on Human Factors in Computing Systems (CHI 2017)
Honorable Mention Award (Top 5%)
- 2016 J.1 A Framework for Self-Experimentation in Personalized Health
Ravi Karkar, Jasmine Zia, Roger Vilardaga, Sonali R. Mishra, James Fogarty, Sean A. Munson, & Julie A. Kientz
Journal of the American Medical Informatics Association 23, 3 (JAMIA)

ABSTRACTS, SYMPOSIA, & WORKSHOPS

- 2025 W.21 Investigating the Use of Beacon for Cognitive Monitoring in People with Alzheimer's Disease and Lewy Body Dementia via the Critical Flicker Frequency
Richard Li, Philip Vutien, Ravi Karkar, Sabrina Omer, Michael Yacoub, Sarah Payne, Sean A. Munson, James Fogarty, George N. Ioannou, & Debby Tsuang
Workshop on Interactive Systems in Healthcare (WISH @ AMIA 2025)
- W.20 Beacon: At-Home, Self-Administration of a Test for Critical Flicker Frequency as a Screening Test for Minimal Hepatic Encephalopathy
Philip Vutien, Richard Li, Ravi Karkar, Sean A. Munson, James Fogarty, Kara Walter, Sabrina Omer, Michael Yacoub, & George N. Ioannou

- 2024 W.19 Exploring the Role of LLMs for Aging Population: Opportunities and Concerns
Sidharth Kaliappan, Abhay Sheel Anand, Koustuv Saha, & Ravi Karkar
HCI and Aging: New Directions, New Principles (CHI)
- 2023 W.18 Earables as Medical Devices: Opportunities and Challenges
Abdul Aziz, Ravi Karkar, Kan Ding, Jay Harvey, & VP Nguyen
4th International Workshop on Earable Computing (UbiComp)
- W.17 Bridging HCI and IS: A Critical Reflection on Crossing the Translation Gap
Ravi Karkar
Bridging HCI and Implementation Science for Innovation Adoption and Public Health Impact (CHI)
- W.16 UW SCOPE: Examining Technology-Enhanced Collaborative Care Management of Depression in the Cancer Setting
Tae Jones, Anant Mittal, Jina Suh, Ravi Karkar, Lydia Andris, Yihao Zheng, Amy M. Bauer, Ty Lostutter, Jesse Fann, James Fogarty, & Gary Hsieh
Bridging HCI and Implementation Science for Innovation Adoption and Public Health Impact (CHI)
- W.15 Developing and Validating Beacon: A Portable Device for Self-Administering a Measure of Critical Flicker Frequency
Richard Li, Ravi Karkar, Philip Vutien, George N. Ioannou, Sean A. Munson, & James Fogarty
Workgroup on Interactive Systems in Healthcare (CHI)
- 2022 W.14 Challenges and Opportunities in Translating HCI Health Research to Clinical Practice
Ravi Karkar
Human-Computer Interaction Consortium (HCIC)
- W.13 SCOPE: A Pragmatic Study Examining Technology-Enhanced Collaborative Psychosocial Care in the Cancer Setting
Jina Suh, Ravi Karkar, Tae Jones, Anant Mittal, Lydia Andris, Yihao Zheng, Amy M. Bauer, Ty Lostutter, James Fogarty, Gary Hsieh, & Jesse Fann
Society for Digital Mental Health Annual Meeting (SDMH)
- 2021 W.12 Finding a New Path for HCIC
Kelly Mack, Anne Spencer Ross, James Fogarty, Alexis Hiniker, Ravi Karkar, Julie A. Kientz, Jennifer Mankoff, Sean A. Munson, Wanda Pratt, & Daniela Rosner
Human-Computer Interaction Consortium (HCIC)
- 2020 W.11 Evaluating a Novel, Portable, Self-Administered Device ("Flicker-app") That Measures Critical Flicker Frequency as a Test for Hepatic Encephalopathy in Patients with Cirrhosis
Philip Vutien, Ravi Karkar, Richard Li, Kara Walter, Sean Munson, James Fogarty, & George Ioannou
American Association for the Study of Liver Diseases (AASLD)
- 2019 W.10 Developing a Novel, Portable, Self-administered Device (Flicker-app) That Measures Critical Flicker Frequency as a Test for Minimal Hepatic Encephalopathy
Kara Walter, Ravi Karkar, Sean Munson, James Fogarty, & George Ioannou
American Association for the Study of Liver Diseases (AASLD)
- W.9 Towards Self-Tracking in Chronic Liver Disease
Ravi Karkar, Rafal Kocielnik, Xiaoyi Zhang, James Fogarty, George N. Ioannou, Sean A. Munson, & Jasmine Zia
Workshop on Interactive Systems in Healthcare (CHI)
- 2018 W.8 Designing for Diagnostic Self-Tracking
Ravi Karkar
UbiComp/ISWC Doctoral Colloquium (UbiComp)
- W.7 Beacon: Translating Research to Adoption in the Field
Ravi Karkar
HCI Across Borders Symposium (CHI)

- 2017 W.6 Hypothesis Formation and Hypothesis Testing: Design Challenges in Self-Experimentation
Ravi Karkar, Jessica Schroeder, James Fogarty, Julie A. Kientz, Sean A. Munson, & Jasmine Zia
Digital Health & Self-Experimentation Workshop (CHI)
- W.5 Designing for Diagnostic Self-Tracking
Ravi Karkar
DUB Doctoral Colloquium (DUB DC)
- 2016 W.4 Toward a Portable, Self-Administered Critical Flicker Frequency Test
Ravi Karkar, Rafal Kocielnik, Xiaoyi Zhang, James Fogarty, George N. Ioannou, Sean A. Munson, & Jasmine Zia
Workshop on Mental Health: Sensing & Intervention (UbiComp)
- W.3 Towards Self-Experimentation in Personalized Health
Ravi Karkar, Jasmine Zia, Roger Vilaradaga, Sonali R. Mishra, James Fogarty, Sean A. Munson, & Julie A. Kientz
Workshop on Interactive Systems in Healthcare (CHI)
- W.2 Personalizing Healthcare using Personal Data
Ravi Karkar, Jessica Schroeder, Jasmine Zia, Roger Vilaradaga, James Fogarty, Sean A. Munson, & Julie A. Kientz
Symposium on Use of Patient-Generated Data Beyond Self-Regulation (ISR11)
- 2015 W.1 Opportunities and Challenges for Self-Experimentation in Self-Tracking
Ravi Karkar, James Fogarty, Julie A. Kientz, Sean A. Munson, Roger Vilaradaga, & Jasmine Zia
Workshop on New Frontiers of Quantified Self: Finding New Ways for Engaging Users in Collecting and Using Personal Data (UbiComp)

POSTERS

- 2024 P.5 Health Tech for the People: Provisional Framework and Progress Report from a Transdisciplinary Accountable Design and Ethics Initiative
Rae K. Walker, Jess Dillard-Wright, Ravi Karkar, Joohyun Chung, & Jason Molony
Eastern Regional Nursing Society (ENRS)
- 2018 P.4 Designing For Diagnostic Self-Tracking
Human Computer Interaction Consortium (HCIC)
- 2016 P.3 TummyTrials : Using Self-Experimentation to Detect Individualized Food Triggers
University of Washington Computer Science & Engineering Affiliates (CSE Affiliates)
- 2015 P.2 A Framework for Self-Experimentation in Personalized Health
University of Washington Computer Science & Engineering Affiliates (CSE Affiliates)
- P.1 A Framework for Self-Experimentation
Intel Science and Technology Center for Pervasive Computing Retreat (ISTCPC)

TEACHING EXPERIENCE

Instructor at University of Massachusetts Amherst, USA

- Fa 2025 Personal Health Informatics - INFO 490PI
Sp 2025 Personal Health Informatics - INFO 490PI
Fa 2024 Introduction to Human Computer Interaction (HCI) - CompSci 325
Sp 2024 Personal Health Informatics - INFO 490PI
Sp 2023 Personal Health Informatics - INFO 490PI
Fa 2022 Introduction to Human Computer Interaction (HCI) - CompSci 325

Teaching Assistant at University of Washington, USA

- Sp 2017 Introduction to Human Computer Interaction (HCI) - CSE 440
Wi 2017 Introduction to Human Computer Interaction (HCI) - CSE 440

- Su 2014 Teaching Assistant at Indian Institute of Management Ahmedabad (IIM-A), India
New Technology Application, Design and Business Models
- 05/2014 Co-Instructor, Center for Environmental Planning and Technology (CEPT), India
Summer School Workshop on Bionic Smart and Adaptive Systems

INVITED TALKS AND PANELS

- 2025 Designing the Next Generation of Health Data Experiences
Google
- Strengthening the Impact of Data-driven Tools for Health through Cross-sector Collaborations
Panel: AIXHealth Seminar, Georgia Tech
- 2023 Measuring Health: From Tools, to Data, to Value
BostonCHI, Boston
- 2022 Challenges and Opportunities in Translating HCI Health Research to Clinical Practice
HCIC 2022, Human Computer Interaction Consortium
- 2020 A Patient-Centered Proposal for Bayesian Analysis of Self-Experiments for Health
ALACRITY Center, University of Washington
- Designing Personal Health Technologies
University of Massachusetts Amherst
Johns Hopkins University
Northwestern University
University of California Irvine
- 2017 Flicker System Development
Frontiers in Gastroenterology & Hepatology, University of Washington
- 2016 Personalizing Healthcare Using Personal Data
International Society for Research on Internet Interventions
- Towards Self-Experimentation in Personalized Health
Workshop on Interactive Systems in Healthcare, CHI 2016
Intel Science and Technology Center for Pervasive Computing

WORKSHOPS ORGANIZED

- 2024 Conducting Research at the Intersection of HCI and Health: Building and Supporting Teams with Diverse Expertise to Increase Public Health Impact
Elena Agapie, [Ravi Karkar](#), Tricia Aung, Aaron Lyon, Sean Munson, Katie Osterhage, Eleanor Burgess, Munya Joel Chinguwa, Andrea Graham, Pedja Klasnja, Terika McCall, & Francisco Nunes
ACM Conference on Human Factors in Computing Systems (CHI) Workshop
- 2024 Designing for Health Justice in an A.I. Era: Transdisciplinary Workshop & Talk Back with Health Tech for the People (HT4P)
Rae K. Walker, Jess Dillard-Wright, [Ravi Karkar](#), Cory Ellen Gatrall, Miamiao Shen, Seyyedehmahdiyeh Khastar, & Jaclyn Oppedisano
Eastern Nursing Research Society (ENRS) Workshop
- 2019 ICTD and Personal Informatics
[Ravi Karkar](#)
ICTD X, Open Session Panel
- 2018 Designing Platforms for N-of-1 Experiments
[Ravi Karkar](#) & Mark Drangsholt

SERVICE & EXTRACURRICULARS

Program Committees

- 2025- IMWUT (Associate Editor) - *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*
- 2024-25 CHI 2025 (Health Subcommittee) - *ACM Conference on Human Factors in Computing Systems*
- 2023-24 CHI 2024 (Health Subcommittee) - *ACM Conference on Human Factors in Computing Systems*
- 2022-23 CHI 2023 (Health Subcommittee) - *ACM Conference on Human Factors in Computing Systems*
- 2022 MobiSys Workshop - *Emerging Devices for Digital Biomarkers*
- 2020 Graphics Interface Conference
- 2020 Pervasive Health Conference, *EAI International Conference on Pervasive Computing Technologies for Healthcare*
- 2018 CHI Workshop - *A Short Workshop on Next Steps Towards Long Term Self Tracking*

University Service

At University of Massachusetts Amherst

- 2025-ongoing Steering Committee Member - Center for Personalized Health Monitoring (IALS)
- 2023-ongoing Health Tech for the People (HT4P) Co-Lead
- 2023-ongoing MassAITC Stakeholder Engagement Core Member
- 2024-2025 Affinity Group Co-Facilitator: Society and Interdisciplinary Computing
- 2024-2025 Annual Faculty Review Committee (elected)
- 2023-2024 Faculty Search Committee
- 2023-2024 Doctoral Program Committee
- 2023-2024 New Building Committee
- 2022-2023 Faculty Search Committee
- 2022-2023 Doctoral Program Committee
- 2022 PhD Admissions Committee

At University of Washington

- 2017-2019 DUB Student Coordinator (*DUB is a multi unit HCI center on University of Washington campus*)
- 2018, 2019 DUB Doctoral Consortium Co-organizer
- 2017, 2019 CSE PhD Admission Committee (as reviewer)
- 2016-2018 CSE 590h Seminar Student Coordinator (*590h is the graduate level seminar on Interactive Systems*)
- 2015-2017 CSE PhD Mentorship Program (as mentor)
- 2017 DUB Retreat Student Coordinator
- 2017 CSE Visit Days HCI Area Scheduler-in Chief and Housing Coordinator
- 2016 CSE Visit Days Housing Coordinator and Activity Coordinator

Reviewer

- 2025 2x NSF Panels
- 2024 NSF Panel
- 2017-2024 CHI, *ACM Conference on Human Factors in Computing Systems*
- 2018, 21, 23, 24 AMIA, *American Medical Informatics Association*
- 2016-2018, 2022-23 IMWUT, *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (previously UbiComp)*
- 2022 TOCHI, *Transactions on Computer-Human Interaction*
- 2021 C&C, *ACM Conference on Creativity & Cognition*
- 2020 GI, *Graphics Interface Conference*
- 2017, 2020 Pervasive Health, *EAI International Conference on Pervasive Computing Technologies for Healthcare*
- 2019 CSCW, *ACM Conference on Computer-Supported Cooperative Work and Social Computing*
- 2019 TEI, *ACM International Conference on Tangible, Embedded and Embodied Interaction*
- 2018 IDC, *ACM Interaction Design and Children Conference*
- 2018 DIS, *ACM SIGCHI Conference on Designing Interactive Systems*
- 2017 ISWC, *International Symposium on Wearable Computers*

Student Volunteer

- 2015, 2017 UbiComp, *ACM International Joint Conference on Pervasive and Ubiquitous Computing*
- 2012, 2016 CHI, *ACM Conference on Human Factors in Computing Systems*

Other

ADVISING & MENTORING

- 2022-2024 **At University of Massachusetts Amherst**
Postdoctoral Mentee
Manideepa Mukherjee Bhakat (co-mentored with Deepak Ganesan). 06/2022 - 06/2024.
- 2022-ongoing **Doctoral Advisees**
Qiuyue (Joy) Zhong. Fa 2025 - ongoing.
Jeongah (Jasmine) Lee. Su 2025 - ongoing.
Sabrina Zaman Ishita. Fa 2024 - ongoing.
Itir Sayar (co-advised with VP Nguyen). Fa 2024 - ongoing.
Sidharth Kaliappan. Fa 2023 - ongoing.
Abhay Sheel Anand (co-advised with Deepak Ganesan). Fa 2022 - ongoing.
- Doctoral Committees**
Aimen Gaba. Proposal Fa 2024. Defense Su 2025.
Hamza Elhamdadi. Proposal Fa 2024. Defense Su 2025.
Zack While. Proposal Fa 2024. Defense Sp 2025.
Manasa Kalanadhabhatta. Defense Su 2024.
- 2020-ongoing **Masters Student Mentees**
Patrick Do. Fa 2024-Sp 2025.
Eric Hsu. Fa 2023.
Rishab Maheshwari. Sp 2023.
Suraj Pathak. Sp 2023.
Sruvastava Sahima. Sp 2023.
Amrit Alok Fa 2020 - Sp 2021.
Shruti Chanumolu Fa 2020 - Sp 2021.
- 2023-ongoing **Undergraduate Student Mentees**
Aastha Agrawal. Sp 2025. Independent study.
Alex Goldstone. Fa 2024-Sp 2025. Honors Thesis chair.
Brian Evans. Fa 2023-Sp 2024. Honors Thesis chair. [Won CICS Computing for the Common Good Award for thesis.](#)
Alex Dhima. Fa 2023-Sp 2024. Honors Thesis co-chair.
Atonbara Diete-Koki. Fa 2023-Sp 2024.
Ananya Krishnan. Fa 2023-Sp 2024.
Tahina Saint-Louis. Fa 2023-Sp 2024.
Khushi Rajoria. Fa 2023-Sp 2024.
- 2019-2025 **At University of Washington**
Doctoral Student Mentees
Richard Li, *Computer Science & Engineering*. 09/2019 - 2025.
Tae Jones, *Computer Science & Engineering*. 09/2021 - 2022.
- 2018 **Masters Students Mentees**
Yue (Will) Wang, *Human-Computer Interaction and Design*. Sp-Su 2018.
Clarissa Song, *Computer Science & Engineering*. Su 2018.
- 2015-2020 **Undergraduate Students Mentees**
Nikolas Ioannou (DUB REU), *Computer Science & Engineering*. Su 2020.
Esther Chien (DUB REU), *Computer Science & Engineering*. Su 2019.
Drew Burack, Molly Foley, Neil Perrin, & Humza Talat (ME 495), *Mechanical Engineering*. Sp 2019.
Tejas Bharadwaj, *Computer Science & Engineering*. Fa 2017 - Sp 2018.
Jessica Lee Zhu, *Computer Science & Engineering*. Wi 2018.
Liam McDonnell, *Undergraduate*. Sp 2017.
Jiayao (Clara) Lu, *Nursing + Computer Science & Engineering*. Au 2015.
Yuhan (Zoe) Lu, *Computer Science & Engineering*. Au 2015.
Ian Turner, *Computer Science & Engineering*. Su-Au 2015.

FUNDRAISING

External Fundraising

- \$269,162**
(2025-2026) **NIA P30 Pilot Award**
AI-based Conversational Agent for Mental Wellbeing of Caregivers of AD/ADRD
PI: Ravi Karkar.
Co-Is: Koustuv Saha (UIUC), Dong Whi Yoo (IUI), and Violeta J. Rodriguez (UIUC)
- \$100,000**
(2025-2027) **Jump - Applied Research for Community Health through Engineering and Simulation (Jump ARCHES)**
AI-Assisted Wellbeing Support for Family Caregivers of Dementia Patients
PI: Koustuv Saha (UIUC).
Co-Is: Daniel S. Brown (UIUC), Violeta J. Rodriguez (UIUC), Ravi Karkar, and Dong Whi Yoo (IUI)
- \$659,860**
(2025-2030) **NSF Faculty Early Career Development Program (CAREER) Award - HCC #2441333**
Improving Personal Health by Advancing Design and Theory of Self-Experimentation Technology
Sole PI

Internal Fundraising

At University of Massachusetts Amherst

- \$20,000**
(2025-2026) **HFA and CICS Collaborative Seed Fund**
Connecting Physiological Responses and Real-world Musical Features in a Simple Music Recommendation Algorithm
Co-PIs: Christopher White, VP Nguyen, and Ravi Karkar
- \$5,000**
(2025-2026) **Institute for Applied Life Sciences - Center for Personalized Health Monitoring - Research Thrust**
HT4P - Health Monitoring Technology for the People
Co-PIs: Ravi Karkar & Rachel Walker
- \$35,000**
(2023-2024) **Institute for Applied Life Sciences - Center for Personalized Health Monitoring - Research Thrust**
HT4P - Health Monitoring Technology for the People
Co-PIs: Ravi Karkar & Rachel Walker

At University of Washington

- \$100,000**
(2022-2023) **Population Health Initiative - Chronic Disease Pilot Grant**
Evaluating a novel, portable, self-administered device ("Beacon") that measures critical flicker frequency toward at-home testing for minimal hepatic encephalopathy in cirrhosis
co-PIs George N. Ioannou, James Fogarty; co-Investigators Sean A. Munson, Philip Vutien, Ravi Karkar & Richard Li