HITA KAMBHAMETTU

https://hita-k.github.io/
hitakam@seas.upenn.edu

EDUCATION

University of Pennsylvania *August 2022 - Present*
PhD in Computer Science
Advisor: Andrew Head

Carnegie Mellon University *August 2018 - May 2022*
B.S. in Information Systems
Minors in Computer Science, Machine Learning

RESEARCH INTERESTS

My work is focused on human-AI interaction and healthcare. I am interested in building AI-powered tools to effectively deliver complex medical information to healthcare consumers. I recently conducted an in-depth study to develop patient-driven guidelines for enhancing intelligent interfaces for medical progress notes. Currently, I am exploring methods of presenting AI-generated summaries to help patients understand their medical records.

RESEARCH EXPERIENCE

Penn Human Computer Interaction Lab (UPenn) *September 2022 - Present*
Advisor: Andrew Head

- **Research Focus:** Building intelligent reading interfaces to make medical information more accessible to patients

Program Analysis, Software Testing, and Applications Lab (CMU) *June 2021 - May 2022*
Advised by Rohan Padhye and Vincent Hellendoorn

- **Research Focus:** Leveraging deep learning techniques to investigate the behavior of fuzzer-generated code

Human-Centered Robotics Lab (UW) *December 2020 - May 2022*
Advised by Maya Cakmak

- **Research Focus:** Investigating how programming systems can best support how end users naturally express robot programs

PUBLICATIONS

Zhiyuan Wu, Jiening Li, Kevin Ma, **Hita Kambhamettu**, Andrew Head. "FFL: A Language and Live Runtime for Styling and Labeling Typeset Math Formulas." ACM Symposium on User Interface Software and Technology (UIST) 2023.

Raymond Fok, **Hita Kambhamettu**, Luca Soldaini, Jonathan Bragg, Kyle Lo, Marti A. Hearst, Andrew Head, Daniel S. Weld. "Scim: Intelligent Skimming Support for Scientific Papers." ACM Conference on Intelligent User Interfaces (IUI) 2023.

Hita Kambhamettu, John Billos, Carolyn Oluw Oluwaseun-Apo, Rohan Padhye, Vincent Hellendoorn "On the Naturalness of Fuzzer-Generated Code" Proceedings of the 19th International Conference on Mining Software Repositories (MSR) 2022.

Hita Kambhamettu, Michael Jae-Yoon Chung, Vinitha Ranganeni, Patricía Alves-Oliviera "Collecting Insights about How Novice Programmers Naturally Express Programs for Robots" Workshop on the intersection of HCI and PL (PLATEAU) 2022.

Yunzhi Li, **Hita Kambhamettu**, Yidan Hu, Rui Zhang "ImPos: An Image-Based Indoor Positioning System" IEEE Annual Consumer Communications & Networking Conference (CCNC) 2022.

Hita Kambhamettu "A Vision-Based Method for Non-Invasive Respiration Rate Monitoring" IEEE Applied Imagery Pattern Recognition Workshop (AIPR) 2021.

TEACHING EXPERIENCE

University of Pennsylvania
Head Teaching Assistant

- CIS4120/CIS5120: Introduction to Human-Computer Interaction — *Fall 2023*
  Instructor: Danaë Metaxa

Carnegie Mellon University
Teaching Assistant

- 15-494/694: Cognitive Robotics — *Spring 2022*
- 67-364: Practical Data Science — *Spring 2022*
- 17-313: Foundations of Software Engineering — *Fall 2021*
- 15-110: Principles of Computing — *Spring 2021*
- 15-110: Principles of Computing — *Fall 2020*

SERVICE/OUTREACH

CIS Office Committee Member — *May 2023 - Present*
Coordinate office assignments for CIS Ph.D. students and postdocs.

AEOP Summer Apprenticeship Mentor — *May 2023 - August 2023*
Mentored the research of a high school apprentice.

Penn GEMS Instructor — *May 2023 - July 2023*
Taught a class on conversational agents to Philadelphia middle school students.

AWARDS

NSF GRFP Honorable Mention — *2022*
NSF REU Scholarship — *2021*
Grace Hopper Research Scholar — *2020*

TECHNICAL SKILLS

Programming Langauages — Python, HTML/CSS, Javascript, Coq
Tools — LaTeX, Pytorch, Git