Hita Kambhamettu

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Research Interests

I study how AI systems can encourage deep and distant learning in domains such as healthcare and scholarly communication. I am particularly interested in leveraging large language models to help non-expert users manage complex information through integrated, intelligent interfaces.

Honors

2024 **National Science Foundation**, Graduate Research Fellowship

2023 **National Science Foundation**, Graduate Research Fellowship Honorable Mention

2021 **National Science Foundation**, Research Experience for Undergraduates Scholarship

2020 **Carnegie Mellon University**, Grace Hopper Celebration Travel Scholarship

Education

Sept 2022–Present **University of Pennsylvania** – Philadelphia, PA
PhD in Computer and Information Science
Advisors: Andrew Head, Kevin Johnson
Research Areas: Human-AI Interaction, Applications of AI for Healthcare

May 2022 **Carnegie Mellon University** – Pittsburgh, PA
BS in Information Systems
Minors in Computer Science and Machine Learning
Advisor: Rohan Padhye

Research Experience

Aug '22–Present **Penn HCI Lab** – Philadelphia, PA
Research Focus: Building intelligent sensemaking interfaces to make complex information more accessible to non-experts.
Advisors: Andrew Head, Kevin Johnson

Summer 2021 **PASTA Lab** – Pittsburgh, PA
Research Intern (REU)
Research Focus: Leveraging deep learning techniques to investigate the behavior of fuzzer-generated code.
Advisors: Rohan Padhye, Vincent Hellendoorn

Summer 2020 **Human-Centered Robotics Lab** – Seattle, WA
Research Intern
Research Focus: Investigating how programming systems can support how end users naturally express robot programs
Hosts: Vinitha Ranganeni, Maya Cakmak

Publications, Articles, and Preprints

** denotes equal contribution*

arXiv 2024 **Traceable Text: Enhancing Understanding of AI-Generated Summaries through Source-Linked Interactions.**
Hita Kambhamettu, Jamie Flores, Andrew Head.
arXiv preprint.

AMIA 2024 **Will Patients Accept Generative AI Genetic Counseling?**
Hita Kambhamettu*, Yidi Huang*, Kevin Johnson, Angela Bradbury.

CHI 2024 **Explainable Notes: Examining How to Unlock Meaning in Medical Notes with Interactivity and Artificial Intelligence.**
Hita Kambhamettu, Danaë Metaxa, Kevin Johnson, Andrew Head.
ACM Conference on Human Factors in Computing Systems.

IIS 2024 **Accelerating Scientific Paper Skimming with Augmented Intelligence Through Customizable Faceted Highlights**
Raymond Fok, Luca Soldaini, Cassidy Trier, Erin Bransom, Kelsey MacMillan, Evie Cheng, **Hita Kambhamettu**, Jonathan Bragg, Kyle Lo, Marti A. Hearst, Andrew Head, Daniel S. Weld
ACM Transactions on Interactive Intelligent Systems.

W3PHIAI 2024 **Knowledge-Grounded Medical Dialogue Generation for Genetic Counseling Regarding Alzheimer's Risk.**
Hita Kambhamettu*, Yidi Huang*, Kevin Johnson, Angela Bradbury.
Workshop on Health Intelligence (co-located with AAAI).

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

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

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

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

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

Teaching

Fall 2023 **Head Teaching Assistant**, CIS 5120 Introduction to Human-Computer Interaction
Instructor: Danaë Metaxa (University of Pennsylvania)

Spring 2022 **Teaching Assistant**, 15-694 Cognitive Robotics
Instructor: David Touretzky (Carnegie Mellon University)

Spring 2022 **Teaching Assistant**, 67-364 Practical Data Science
Instructor: Raja Sooriamurthi (Carnegie Mellon University)

Fall 2021 **Teaching Assistant**, 17-313: Foundations of Software Engineering
Instructor: Rohan Padhye (Carnegie Mellon University)

Invited Talks

Oct 2024 **Penn CIS Health, Healthcare, and Technology**
Designing Interactive Agents for Answering Difficult Medical Questions

Feb 2024 **Penn Medicine Patient Advisory Council**
Explainable Notes: How to Unlock Meaning in Medical Notes with Artificial Intelligence

June 2023 **University of Pennsylvania GEMS Seminar**
Human-centered Opportunities for Building Effective Conversational Agents

Selected Media and Impact

Apr 12, 2024 **Penn HCI & NLP Students Awarded NSF GRFP**
Alexandria Moraschi, *Penn CIS Newsletter*.

Jan 11, 2024 **Coming Together To Transform Tech**
Janelle Weaver, *Penn Engineering Magazine*.

Aug 21, 2023 **Bringing Scientific Papers to Life**
Marti Hearst, *ICDAR 2023 Keynote*.

Academic Service & Mentoring

2024 **Machine Learning for Health**
Subchair, Workflow and Review Committee

2024 **CHI, UIST**
Peer Reviewer

2024 **CMU Mentorship Program**
Veronica Pimenova (CMU Undergraduate)

2023 **AEOP Mentorship Program**
Evelyn Parra de Jesus (Arcadia University Undergraduate)

Leadership

May '23–Present *PhD Rep.*, **Computer and Information Science Admitted Students Open House**

May '22–Present *Organizer*, **Penn CIS PhD Mentorship Program**

Sept '22–Present *PhD Rep.*, **Penn Engineering Graduate Student Government**

Sept '23–May '24 *PhD Rep.*, **Department of Computer and Information Science Office Committee**