

ALYSSA HWANG

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Modified: February 5, 2024

EDUCATION

University of Pennsylvania, School of Engineering and Applied Science Philadelphia, PA
PhD in Computer and Information Science Expected May 2026
MS in Computer and Information Science Dec 2023
Advisors: Andrew Head, Chris Callison-Burch
Thesis topic: Supporting fluid and informative conversations with large language models

Columbia University, School of Engineering and Applied Science New York, NY
BS in Computer Science May 2020
Advisor: Kathleen McKeown
Thesis: Towards Augmenting Lexical Resources for Slang and African American English

SELECTED HONORS

OpenAI DevDay Invited Attendee Nov 2023
Penn Engineering Outstanding Service Award May 2023
CRA-WP Grad Cohort for Women Invited Attendee April 2022
Amazon Alexa Taskbot Competition Finalist Team Feb 2022
National Science Foundation Graduate Research Fellowship April 2020

SELECTED PUBLICATIONS, ARTICLES, AND PREPRINTS

- Ivie: Lightweight Anchored Explanations of Just-Generated Code. Litao Yan, **Alyssa Hwang**, Zhiyuan Wu, Andrew Head. *To appear at the ACM Conference on Human Factors in Computing Systems (CHI) 2024.*
- Grounded Intuition of GPT-Vision's Abilities with Scientific Images. **Alyssa Hwang**, Andrew Head, Chris Callison-Burch. *arXiv preprint.*
- Rewriting the Script: Adapting Text Instructions for Voice Interaction. **Alyssa Hwang**, Natasha Oza, Chris Callison-Burch, Andrew Head. *ACM Conference on Designing Interactive Systems (DIS) 2023.*

INVITED TALKS

Columbia NLP Seminar Human-centered Goals, Methods, and Evaluation for LLMs (tentative) Apr 2024
Google Human-centered Opportunities for Conversational Assistants (tentative) Mar 2024
Women in Data Science @ Penn Human-centered AI Research and Design Feb 2024
U. of Pennsylvania CLunch Developing Grounded Intuition of Large Language Models Jan 2024
U. of Pennsylvania CLunch Rewriting the Script: Adapting Text Instructions for Voice Interaction Sept 2023

SELECTED MEDIA AND IMPACT

- **A Peak into the Future of Visual Data Interpretation**, *Penn Today.*
- **ChatGPT-Maker OpenAI Hosts its First Big Tech Showcase as the AI Startup Faces Growing Competition**, *Associated Press and 162 US news outlets.*
- **As OpenAI's Multimodal API Launches Broadly, Research Shows It's Still Flawed**, *TechCrunch.*
- **Rewriting the Script: Developing Effective AI Assistants**, *Penn Engineering Today.*

PROFESSIONAL AND TEACHING EXPERIENCE

Amazon Web Services *Applied Scientist Intern* Comprehend Summer 2022
Google *Software Engineering Intern* Search, Assistant, Shopping/NLU Summers 2019, 2020, 2021
University of Pennsylvania *Head Teaching Assistant* CIS 3990 Introduction to HCI Fall 2022
University of Pennsylvania *Teaching Assistant* CIS 5300 Computational Linguistics Fall 2021