

ALYSSA HWANG

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Modified: November 23, 2023

EDUCATION

University of Pennsylvania, School of Engineering and Applied Science

Philadelphia, PA

PhD in Computer and Information Science

Expected May 2026

MSE in Computer and Information Science

Expected Dec 2023

Advisors: Andrew Head, Chris Callison-Burch

Thesis topic: AI interfaces for effectively delivering complex information

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

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

Columbia University Theodore R. Bashkow Award

May 2020

National Science Foundation Graduate Research Fellowship

April 2020

Google Grace Hopper Celebration Travel Fellowship

October 2019

Johnson & Johnson Scholars Program Research Grant

Summer 2018

Data Science Institute Scholars Program Research Grant

Summer 2018

SELECTED PUBLICATIONS, ARTICLES, AND PREPRINTS

- **Alyssa Hwang**, Andrew Head, Chris Callison-Burch. Grounded Intuition of GPT-Vision's Abilities with Scientific Images. [arXiv preprint](#).
- **Alyssa Hwang**, Natasha Oza, Chris Callison-Burch, Andrew Head. Rewriting the Script: Adapting Text Instructions for Voice Interaction. [ACM Conference on Designing Interactive Systems \(DIS\) 2023](#).
- Andrew Zhu*, Liam Dugan*, **Alyssa Hwang**, Chris Callison-Burch. Kani: A Lightweight and Highly Hackable Framework for Building Language Model Applications. *To appear at the EMNLP Workshop for Natural Language Processing Open-Source Software (NLP-OSS) 2023*. [OpenReview preprint](#).
- **Alyssa Hwang***, Bryan Li*, Zhaoyi Hou*, Dan Roth. Large Language Models as Sous Chefs: Revising Recipes with GPT-3. [arXiv preprint 2023](#).
- Litao Yan, **Alyssa Hwang**, Zhiyuan Wu, Andrew Head. Ivie: Lightweight Anchored Explanations of Just-Generated Code. *In submission at the ACM Conference on Human Factors in Computing Systems (CHI) 2024*.

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](#).
- 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