ALYSSA HWANG

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Modified: November 21, 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: Audio-first AI interfaces for 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