

ALYSSA HWANG

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Human-AI Systems ◇ User-driven research and product direction

SUMMARY

PhD graduate in human-AI systems research, specializing in AI interfaces that surface structure in complex information. Skilled in user research, interaction design, and end-to-end prototyping for AI-driven products. Excited about integrating rigorous user insight with technical depth to shape ambitious high-impact systems.

EDUCATION

University of Pennsylvania	Philadelphia, PA
<i>PhD</i> in Computer and Information Science	Dec 2025
<i>MS</i> in Computer and Information Science	Dec 2023
<i>Advisors:</i> Boon Thau Loo, Andrew Head	
<i>Thesis:</i> User Interfaces for Fine-grained Integration of Information	
Columbia University	New York, NY
<i>BS</i> in Computer Science	May 2020
<i>Advisor:</i> Kathleen McKeown	
<i>Thesis:</i> Towards Augmenting Lexical Resources for Slang and African American English	

INDUSTRY EXPERIENCE

Amazon Web Services , Applied Scientist Intern	May–Sept 2022
<i>NewsQs: Multi-Source Question Generation for the Inquiring Mind</i> (arXiv preprint)	
<i>Hosts:</i> Kathleen McKeown , Kalpit Dixit	
Google , Software Engineering Intern	May–Aug 2021
<i>Image Ranking for Shopping</i>	
<i>Hosts:</i> Wei Wan, Tao Chen	
Google Software Engineering Intern	June–Aug 2020
<i>Dialogue Act Recognition for Dialogflow</i> <i>Hosts:</i> Chuan Wang, Igor Poletaev	
Google Software Engineering Intern	May–Aug 2019
Image Carousel for Events Search	
<i>Hosts:</i> YoungHoon (Tim) Jung , Souvik Dutta Chowdhury	

SELECTED PUBLICATIONS AND PREPRINTS

Connecting the Dots: Surfacing Structure in Documents through AI-Generated Cross-Modal Links
Alyssa Hwang, Hita Kambhamettu, Yue Yang, Ajay Patel, Joseph Chee Chang, Andrew Head. *arXiv 2026*.

Attribution Gradients: Incrementally Unfolding Citations for Critical Examination of Attributed AI Answers

Hita Kambhamettu, Alyssa Hwang, Philippe Laban, Andrew Head. *arXiv 2025* (in submission).

JumpStarter: Human-AI Planning with Task-Structured Context Curation

Sitong Wang*, Xuanming Zhang*, Jenny Ma, Alyssa Hwang, Lydia Chilton. [arXiv 2025](#) (in submission).

RAID: A Shared Benchmark for Robust Evaluation of Machine-Generated Text Detectors

Liam Dugan, Alyssa Hwang, Filip Trhlík, Josh Magnus Ludan, Andrew Zhu, Hainiu Xu, Daphne Ippolito, Chris Callison-Burch. [ACL 2024](#).

FanOutQA: Multi-Hop, Multi-Document Question Answering for Large Language Models

Andrew Zhu, Alyssa Hwang, Liam Dugan, Chris Callison-Burch. [ACL 2024](#).

Ivie: Lightweight Anchored Explanations of Just-Generated Code

Litao Yan, Alyssa Hwang, Zhiyuan Wu, Andrew Head. [CHI 2024](#).

NewsQs: Multi-Source Question Generation for the Inquiring Mind

Alyssa Hwang, Kalpit Dixit, Miguel Ballesteros, Yassine Benajiba, Vittorio Castelli, Markus Dreyer, Mohit Bansal, Kathleen McKeown.

Work conducted during an internship at AWS AI Labs. [arXiv 2024](#).

Grounded Intuition of GPT-Vision's Abilities with Scientific Figures

Alyssa Hwang, Andrew Head, Chris Callison-Burch. [arXiv 2023](#).

Rewriting the Script: Adapting Text Instructions for Voice Interaction

Alyssa Hwang, Natasha Oza, Chris Callison-Burch, Andrew Head. [DIS 2023](#).

INVITED TALKS

Authorship Matters in Generative AI The Ethics Institute at Kent Place School	Nov 20, 2024
A Principled Approach to Developing Grounded Intuition of Generative Models Google People and AI Research (PAIR) Machine Learning	Apr 18, 2024
Rewriting the Script: Human-Centered Opportunities for NLP Columbia University Natural Language Processing Seminar	Apr 17, 2024
Human-centered AI Research and Design Women in Data Science @ Penn	Feb 9, 2024

SELECTED HONORS

Penn Engineering Outstanding Service Award	May 2023
Amazon Alexa Taskbot Competition Finalist Team	Feb 2022
Columbia University Theodore R. Bashkow Award	May 2020
National Science Foundation Graduate Research Fellowship	April 2020

SKILLS

Programming: Python, JavaScript, C/C++

AI Systems: generative AI, multimodal systems, LLM integration, model evaluation, NLP

Human-AI Research: Mixed-methods user research, experimental design, human-AI interaction, HCI

Design & Prototyping: Human-centered design, LLM/software prototyping, ability-based design