

# ALYSSA HWANG

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Modified: February 19, 2026

*Human-AI Systems  $\diamond$  User-driven research and product direction*

## SUMMARY

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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

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<b>University of Pennsylvania</b>	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> <a href="#">User Interfaces for Fine-grained Integration of Information</a>	

<b>Columbia University</b>	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

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

## SELECTED PUBLICATIONS AND PREPRINTS

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**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**

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### **Authorship Matters in Generative AI**

Nov 20, 2024

The Ethics Institute at Kent Place School

### **A Principled Approach to Developing Grounded Intuition of Generative Models**

Apr 18, 2024

Google People and AI Research (PAIR) Machine Learning

### **Rewriting the Script: Human-Centered Opportunities for NLP**

Apr 17, 2024

Columbia University Natural Language Processing Seminar

### **Human-centered AI Research and Design**

Feb 9, 2024

Women in Data Science @ Penn

## **SELECTED HONORS**

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### **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**

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**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