

# Hannah Gonzalez Collison

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Baltimore, Maryland

## RESEARCH INTERESTS

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My research lies in **Natural Language Processing**, with interests spanning **AI safety and alignment**, **AI for science**, and **AI in education**. Lately, I have been working on leveraging the reasoning capabilities of LLMs to characterize the relative impact of publications, and on studying emergent misalignment in fine-tuned systems.

## EDUCATION

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### Johns Hopkins University

Ph.D. Computer Science. Focused on NLP.

Advisors: Daniel Khashabi and Benjamin Van Durme

*Baltimore, MD*

August 2025 - Present

### University of Pennsylvania

M.S.E. Computer and Information Science.

B.S.E. Computer and Information Science. Magna Cum Laude.

Minors: Mathematics; Engineering Entrepreneurship.

Research Advisor: Chris Callison-Burch

*Philadelphia, PA*

August 2021 - December 2023

August 2019 - May 2023

## RESEARCH EXPERIENCE

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### Johns Hopkins University

Research Assistant, *with Daniel Khashabi and Benjamin Van Durme*

*Baltimore, MD*

August 2025 - Present

### University of Pennsylvania

Research Assistant, *with Eleni Miltsakaki and Chris Callison-Burch*

*Philadelphia, PA*

August 2021-December 2023

### University of Pennsylvania

Research Assistant, *with Eleni Miltsakaki and Kostas Daniilidis*

*Philadelphia, PA*

May 2023-December 2023

### Center For Neuroengineering and Therapeutics

Research Assistant, *with Kathryn Davis*

*Philadelphia, PA*

August 2021-May 2022

## PUBLICATIONS

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1. **Weird Generalization is Weirdly Brittle.** Miriam Wanner, **Hannah Collison**, William Jurayj, Benjamin Van Durme, Mark Dredze, William Walden. *Under Review.*
2. 🏆 **Crystal: Characterizing Relative Impact of Scholarly Publications.** **Hannah Collison**, Benjamin Van Durme, Daniel Khashabi. *Under Review.*
3. 🏆 **Enhancing Human Summaries for Question-Answer Generation in Education.** **Hannah Gonzalez**, Liam Dugan, Eleni Miltsakaki, Zhiqi Cui, Jiaxuan Ren, Bryan Li, Shriyash Upadhyay, Etan Ginsberg, Chris Callison-Burch. *BEA at ACL 2023*, pages 108–118, Toronto, Canada.
4. **Automatically Generated Summaries of Video Lectures May Enhance Students' Learning Experience.** **Hannah Gonzalez**, Jiening Li, Helen Jin, Jiaxuan Ren, Hongyu Zhang, Ayotomiwa Akinyele, Adrian Wang, Eleni Miltsakaki, Ryan Baker, Chris Callison-Burch. *BEA at ACL 2023*, pages 382–393, Toronto, Canada.
5. **Question Generation for Textbook Flashcards.** Liam Dugan, Eleni Miltsakaki, Shriyash Upadhyay, Etan Ginsberg, **Hannah Gonzalez**, Dayheon Choi, Chuning Yuan, Chris Callison-Burch. *EDULEARN22*, pages 3412–3412, Palma, Spain.
6. **A Feasibility Study of Answer-Agnostic Question Generation for Education.** Liam Dugan, Eleni Miltsakaki, Shriyash Upadhyay, Etan Ginsberg, **Hannah Gonzalez**, Dayheon Choi, Chuning Yuan, Chris Callison-Burch. *Findings of ACL 2022*, pages 1919–1926, Dublin, Ireland.

7. **Deep Learning-Based Automated Segmentation of Resection Cavities on Postsurgical Epilepsy MRI.** Arnold Campbell, Ramya Muthukrishnan, Akash Pattnaik, Nishant Sinha, Adam Gibson, **Hannah Gonzalez**, Sandhitsu R. Das, Brian Litt, Dario J. Englot, Victoria L. Morgan, Kathryn A. Davis MD, Joel M. Stein. *NeuroImage: Clinical* 36, page 103154, 2022.

 Best Poster Award

## PROFESSIONAL EXPERIENCE

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<b>Microsoft Corporation, Azure AI Search</b> Software Engineer (Level 60)	<i>Redmond, WA</i> January 2024 - August 2025
<b>Microsoft Corporation, Core Search and AI Team</b> Software Engineer Intern	<i>Redmond, WA</i> May 2023-August 2023
<b>Microsoft Corporation, Core Search and AI Team</b> Software Engineer Intern	<i>Bellevue, WA</i> May 2022-August 2022
<b>Microsoft Corporation, Research and Development Engineering Team</b> Software Engineer + Product Manager Intern	<i>Redmond, WA</i> May 2021-August 2021

## SELECTED GRANTS AND AWARDS

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<b>Walter Korn Award</b> Awarded annually to one outstanding senior in the Moore School of Engineering at the University of Pennsylvania.	University of Pennsylvania, 2023
<b>Dean's List</b> Awarded annually to any student who achieves a combined GPA of 3.7 for the fall and spring semesters.	University of Pennsylvania, 2022
<b>Vagelos Undergraduate Research Grant</b> Grant that supports outstanding undergraduate research efforts.	University of Pennsylvania, 2022
<b>Gutmann-Doyle Research Opportunities Fund Award</b> Award to assist with activities associated with independent research projects.	University of Pennsylvania, 2022
<b>CS Research Mentorship Program (CSRMP) Scholar</b> CSRMP matches students from historically marginalized groups with peers and a Google mentor to support their pursuit of computing research pathways.	Google Research, 2021

## SELECTED INVITED TALKS

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RAGChat: Optimal retrieval with Azure AI Search (Presenter)	Microsoft Corporation, 2025
Women In Computer Science Big Tech Internship Panel (Panelist)	University of Pennsylvania, 2023
Stanford Research Conference (Poster Presenter)	Stanford University, 2023
Spring Research Symposium (Poster Presenter)	University of Pennsylvania, 2023
Grad Cohort for IDEALS Research Lightning Talk (Presenter)	Computer Research Association, 2023
CSRMP Alumni Panel Research Presentation (Presenter)	Google Research, 2023
OurCS (Poster Presenter)	Carnegie Mellon University, 2022
CSRMP Alumni Panel Research Presentation (Presenter)	Google Research, 2022
Penn Neuroscience Society Expo (Poster Presenter)	University of Pennsylvania, 2022
Finding the Right Fit Career Orientation (Panelist)	Education USA, 2022

## TEACHING EXPERIENCE

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<b>University of Pennsylvania</b> Teaching Assistant for Artificial Intelligence (CIS 5210) with Chris Callison-Burch	<i>Philadelphia, PA</i> August 2023-December 2023
<b>University of Pennsylvania</b> Course Staff for Engineering Entrepreneurship I (EAS 5450)	<i>Philadelphia, PA</i> August 2022-May 2023
<b>University of Pennsylvania</b> Instructor at Penn's Fife Academy	<i>Philadelphia, PA</i> August 2020-December 2020
<b>University of Pennsylvania</b> Teaching Assistant at Penn Engineering Summer Academy	<i>Philadelphia, PA</i> July 2020