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Education

Georgia Institute of Technology

Atlanta, GA, United States

Aug. 2021 - PRESENT

3.84 GPA Ph.D. in Machine Learning

- Advised by Prof. Diyi Yang; Research on inclusive & robust Large Language Models
- NSF Graduate Research Fellowship Program Honorable Mention Recipient.

New York University Abu Dhabi

Abu Dhabi, United Arab Emirates

3.73 GPA B.S. in Computer Science with a concentration in Economics

Aug. 2015 - May 2019

· Research focused on semantic relation extraction and Arabic computational linguistics under Prof. Nizar Habash

Highlighted Work

Distilling an End-to-End Voice Assistant from Speech Recognition Data

William Held, Ella Li, Michael Ryan, Weiyan Shi, Yanzhe Zhang, Diyi Yang

63rd Annual Meeting of the Association for Computational Linguistics, Oral (Top 5% of Papers)

2025

Optimizing Pretraining Data Mixtures with LLM-Estimated Utility

William Held, Bhargavi Paranjape, Punit Singh Koura, Mike Lewis, Frank Zhang, Todor Mihaylov

Preprint w/ Meta GenAl, Part of Llama 4 Research

2024

Multi-VALUE: A Framework for Cross-Dialectal English NLP

William Held, Caleb Ziems, Jingfeng Yang, Jwala Dhamala, Rahul Gupta, Diyi Yang

Equal Contribution

61st Annual Meeting of the Association for Computational Linguistics (20.8% Acceptance Rate)

Can Large Language Models Transform Computational Social Science?

Caleb Ziems, William Held, Omar Shaikh, Jiaao Chen, Zhehao Zhang, Diyi Yang Computational Linguistics, Volume 50

2023

Professional Experience Meta Al

Research Scientist Intern - GenAl LLama Data Team

Menlo Park, CA, United States

Summer 2023 & Summer 2024 • Worked on methods for data mix optimization for Large Language Model Pretraining.

• Contributed to both Llama 3 and Llama 4 LLMs

Google Research

New York, NY, United States

Research Intern - Neural Semantic Parsing

Summer 2022

· Worked on methods to help extend Google Assistant's Multilingual capabilities. Work published in our paper: "DAMP".

Sunshine/Lumi Labs

Quorum Analytics

Palo Alto, CA, United States

Software Engineer - Machine Learning

June 2019 - June 2021

- Worked with Prof. Dan Jurafsky on coreference resolution. Work published in our paper: "Focus on What Matters".
- 9th engineer hired to build out Al-powered applications focused on contact management

Foursquare New York, NY, United States

Machine Learning Engineer Intern - Pilgrim Data Team

Summer 2018

Knotch

New York, NY, United States

Data Scientist - Knowledge Search Engine

May 2017 - February 2018

Software Engineering Intern - User Accounts and Permissions

Washington, D.C., United States Spring 2017

Sandia National Laboratories

Albuquerque, NM, United States

Research Intern - Computer Science Research Institute

Summer 2015 & Summer 2016

Service.

ACL 2022-, NeurIPS 2022- ICLR 2024-, ICML 2023-Reviewer

Organizer 2021 Georgia Tech Graduate Application Support (GT-GAS)

Languages _

Volunteer Coordinator The 2021 Conference on Empirical Methods in Natural Language Processing

Programming Scala(Spark), Python(PyTorch, Jax), Javascript(React) Natural English, Arabic

Marin: An Open Lab for Building Foundation Models David Hall, Ahmed Ahmed, Christopher Chou, Abhinav Garg, Rohith Kuditipudi, Will Held, Percy	/ Liang
Open-Source Software	2025
Distilling an End-to-End Voice Assistant from Speech Recognition Data William Held, Ella Li, Michael Ryan, Weiyan Shi, Yanzhe Zhang, Diyi Yang	
63rd Annual Meeting of the Association for Computational Linguistics, Oral (Top 5% of Papers)	2025
Mind the gap! static and interactive evaluations of large audio models	2023
William Held , Ella Li , Michael J Ryan, Kunat Pipatanakul, Potsawee Manakul, Hao Zhu, Diyi Yan	σ
63rd Annual Meeting of the Association for Computational Linguistics, Oral (Top 5% of Papers)	8 2025
SynthesizeMe! Inducing Persona-Guided Prompts for Personalized Reward Models in	
Michael J Ryan, Omar Shaikh, Aditri Bhagirath, Daniel Frees, William Held , Diyi Yang	I ELMS
63rd Annual Meeting of the Association for Computational Linguistics	2025
Optimizing Pretraining Data Mixtures with LLM-Estimated Utility	
William Held, Bhargavi Paranjape, Punit Singh Koura, Mike Lewis, Frank Zhang, Todor Mihaylov	
Preprint 9	2024
Perceptions of Language Technology Failures from South Asian English Speakers	
William Held ⁶ , Faye Holt ⁶ , Diyi Yang	
Findings of the Association for Computational Linguistics ACL 2024	2024
Measuring and Addressing Indexical Bias in Information Retrieval	2027
Caleb Ziems, William Held , Jane Dwivedi-Yu, Diyi Yang	
Findings of the Association for Computational Linguistics ACL 2024	2024
Unintended Impacts of LLM Alignment on Global Representation	
Michael Ryan, William Held , Diyi Yang	
Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics	2024
Main, Long Paper Acceptance Rate: 23.5%	
A Material Lens on Coloniality in NLP	
William Held, Camille Harris, Michael Best, Diyi Yang	
Pre-Print Pre-Print	2023
Task-Agnostic Low-Rank Adapters for Unseen English Dialects	
Zedian Xiao, William Held , Yanchen Liu, Diyi Yang	
The 2023 Conference on Empirical Methods in Natural Language Processing	2023
DADA: Dialect Adaptation via Dynamic Aggregation of Linguistic Rules	
Yanchen Liu, William Held , Diyi Yang	
The 2023 Conference on Empirical Methods in Natural Language Processing	2023
TADA: Task Agnostic Dialect Adapters for English	
William Held, Caleb Ziems, Diyi Yang	
61st Annual Meeting of the Association for Computational Linguistics	2023
• Findings, Short Paper Acceptance Rate: 35.58%	
Can Large Language Models Transform Computational Social Science?	
Caleb Ziems, William Held, Omar Shaikh, Jiaao Chen, Zhehao Zhang, Diyi Yang	2022
Journal of Computational Linguistics	2023
Modeling Cross-Cultural Pragmatic Inference with Codenames Duet	
Omar Shaikh, Caleb Ziems, William Held , Aryan Pariani, Fred Morstatter, Diyi Yang 61st Annual Meeting of the Association for Computational Linguistics	2022
	2023
 Findings, Long Paper Acceptance Rate: 41.89% Multi-VALUE: A Framework for Cross-Dialectal English NLP 	
William Held , Caleb Ziems , Jingfeng Yang, Jwala Dhamala, Rahul Gupta, Diyi Yang	6 - 10 11 11
	Equal Contribution
61st Annual Meeting of the Association for Computational Linguistics	2023
 Main Conference, Long Paper Acceptance Rate: 20.75% DAMP: Doubly Aligned Multilingual Parser for Task-Oriented Parsing 	
William Held, Chris Hidey, Fei Liu, Eric Zhu, Rahul Goel, Diyi Yang, Rushin Shah	
61st Annual Meeting of the Association for Computational Linguistics	2023
Main Conference, Long Paper Acceptance Rate: 20.75%	2023
- Main conference, Long raper receptance water 20.7370	

All Publications

On Second Thought, Let's Not Think Step by Step! Bias and Toxicity in Zero-Shot Reasoning	
Omar Shaikh, Hongxin Zhang, William Held , Michael Bernstein, Diyi Yang	
61st Annual Meeting of the Association for Computational Linguistics	2023
Main Conference, Long Paper Acceptance Rate: 20.75%	
Shapley Head Pruning: Identifying and Removing Interference in Multilingual Transformers	
William Held, Diyi Yang	
17th Conference of the European Chapter of the Association for Computational Linguistics	2022
Main Conference, Long Paper Acceptance Rate: 24.7%	
Focus on what matters: Applying Discourse Coherence Theory to Cross Document Coreference	
William Held , Dan Iter, Dan Jurafsky	
Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing	2021
Selected for Oral Presentation, Long Paper Acceptance Rate: 24.6%	
The Effectiveness of Simple Hybrid Systems for Hypernym Discovery	
William Held, Nizar Habash	
Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics	2019
Short Paper Acceptance Rate: 18.2%	
Transitioning Green-Gauss Gradients to the Kokkos Framework	
William Held, Andrew Bradley	
Sandia National Labs Center for Computing Research Summer Proceedings	2016
A Testing Framework for a Hybrid Triangular Solver	
William Held, Andrew Bradley	
Sandia National Labs Center for Computing Research Summer Proceedings	2015

JULY 9, 2025 WILLIAM B. HELD · RÉSUMÉ WWW.WILLIAMHELD.COM