

Andy Liu

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Language Technologies Institute
Carnegie Mellon University
5000 Forbes Ave, Pittsburgh, PA 15213

◇ RESEARCH INTERESTS

interactive evaluation of language technologies,
social intelligence in large language models,
pluralistic value alignment

◇ EDUCATION

- 2023 – **Carnegie Mellon University**, Pittsburgh, PA
PH.D. IN LANGUAGE AND INFORMATION TECHNOLOGIES
Advisors: Mona Diab, Daniel Fried
- 2019 – 2023 **Harvey Mudd College (HMC)**, Claremont, CA
B.S. IN COMPUTER SCIENCE & MATHEMATICS
CONCENTRATION IN SCIENCE, TECHNOLOGY, AND SOCIETY

◇ PUBLICATIONS

— Conference Proceedings —

- 2024 **Andy Liu**, Mona Diab, and Daniel Fried. “Evaluating Large Language Model Biases in Persona-Steered Generation.” *Annual Meeting of the Association for Computational Linguistics, 2024*.
- 2023 **Andy Liu**, Hao Zhu, Emmy Liu, Yonatan Bisk, and Graham Neubig. “Computational Language Acquisition with Theory of Mind.” *The Eleventh Annual International Conference on Learning Representations*.

◇ CONTRIBUTED POSTERS & PRESENTATIONS

— Presentations —

- 2024 HUMAN-CENTERED LARGE LANGUAGE MODELING WORKSHOP, BANGKOK, THAILAND
Evaluating Large Language Model Biases in Persona-Steered Generation

— Posters —

- 2024 ANNUAL MEETING OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS, Bangkok, Thailand
Evaluating Large Language Model Biases in Persona-Steered Generation
- 2023 INTERNATIONAL CONFERENCE ON LEARNING REPRESENTATIONS, Kigali, Rwanda
Computational Language Acquisition with Theory of Mind

◇ TEACHING

- Fall 2022 NATURAL LANGUAGE PROCESSING (CSCI 159), Teaching Assistant, HMC
Fall 2021 PRINCIPLES OF COMPUTER SCIENCE (CSCI 060), Teaching Assistant, HMC

◇ INTERNSHIPS & ASSISTANTSHIPS

— Academia —

- 1/22 – 5/24 **HMC Department of Computer Science, Claremont, CA**
UNDERGRADUATE RESEARCHER, Lab for CATS (Cognition and Attention over Time and Space)
Advisor: Calden Wloka
Fine-tuned models for action recognition on 3D video input, then used GradCAM-based network visualization techniques to analyze neural network attention and interpret model failure cases.
- 5/22 – 8/22 **CMU Language Technologies Institute, Pittsburgh, PA**
RESEARCH INTERN, NeuLab
Advisors: Graham Neubig, Yonatan Bisk
Extended computational models of reinforcement learning-based language learning agents to study the influences of theory of mind modeling and environmental pressures on language acquisition.

— Industry —

- 9/22 – 5/23 **eBay, San Jose, CA**
CAPSTONE TEAM PROJECT MEMBER, Member to Member Messaging
Supervisor: Kishore Paul
Developed clustering and sentiment analysis techniques to analyze Member-to-Member messaging on eBay and predict consumer outcomes.
- 5/21 – 8/21 **Facebook, Menlo Park, CA**
SOFTWARE ENGINEERING INTERN, Stories Delivery
Supervisor: Shafiqul Azam Chowdhury
Designed, implemented, and tested neural networks to predict whether increased story duration would increase engagement, then integrated models and supporting data pipelines into backend production code.