

# Andy Liu

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Language Technologies Institute  
Carnegie Mellon University  
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## ◇ EDUCATION

- 2023 – Present    **Carnegie Mellon University**, Pittsburgh, PA  
PH.D. IN LANGUAGE AND INFORMATION TECHNOLOGIES  
**Advisors:** Mona Diab, Daniel Fried  
**Cumulative GPA:** 4.08  
**Relevant Coursework:** Large Language Models, Advanced Natural Language Processing, Multimodal Machine Learning, Deep Reinforcement Learning, Machine Learning & Game Theory, Quantitative Evaluation of Language Technologies, Cooperative AI, AI Governance
- 2019 – 2023    **Harvey Mudd College (HMC)**, Claremont, CA  
B.S. IN COMPUTER SCIENCE & MATHEMATICS  
CONCENTRATION IN SCIENCE, TECHNOLOGY, AND SOCIETY

## ◇ HONORS & AWARDS

- 2025    NSF GRFP HONORABLE MENTION  
2023    DEPARTMENTAL HONORS, HMC  
2019 – 2023    HARVEY S. MUDD MERIT AWARD, HMC  
2019 – 2023    LOCKHEED MARTIN STEM SCHOLARSHIP  
2019 – 2023    NATIONAL MERIT SCHOLARSHIP

## ◇ PUBLICATIONS

### — Conference Proceedings —

- 2025    Wenkai Li\*, Jiarui Liu\*, **Andy Liu**, Xuhui Zhou, Mona Diab, and Maarten Sap. “BIG5-CHAT: Shaping LLM Personalities Through Training on Human-Grounded Data.” *Annual Meeting of the Association for Computational Linguistics*, 2025.
- 2025    **Andy Liu\***, Abhishek Kulkarni\*, Jean-Raphaël Gaglione, Daniel Fried, and Ufuk Topcu. “Dynamic Coalition Structure Detection in Natural-Language-based Interactions.” *The Twenty-Fourth International Conference on Autonomous Agents and Multi-Agent Systems*.
- 2024    **Andy Liu**, Mona Diab, and Daniel Fried. “Evaluating Large Language Model Biases in Persona-Steered Generation.” *Findings of the 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*.

## ◇ TEACHING

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

## ◇ INTERSHIPS & ASSISTANTSHIPS

### — Academia —

1/22 – 5/23      **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  
Studied computational models of reinforcement learning-based language learning agents to study the influences of theory of mind modeling and environmental pressures on language acquisition.

1/21 – 5/23      **HMC Department of Mathematics**, Claremont, CA  
UNDERGRADUATE RESEARCHER, Nonlinear & Complex Systems Research Group  
Advisor: Heather Zinn Brooks  
Extended existing continuous models of opinion dynamics on a social network to consider cases where agents have different underlying belief systems.

### — 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      **Meta**, Menlo Park, CA  
SOFTWARE ENGINEERING INTERN, Stories Delivery  
Supervisor: Shafiul 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.