

RYAN CHENG

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EDUCATION

University of California, Berkeley <i>Master of Science, Computer Science</i>	<i>August 2025 - May 2026</i>
University of California, Berkeley <i>Bachelor of Arts, Physics Bachelor of Arts, Computer Science</i>	<i>August 2021 - May 2025</i> <i>GPA: 3.972</i>

PUBLICATIONS AND PREPRINTS

- Consistently Simulating Human Personas with Multi-Turn Reinforcement Learning.**
*Marwa Abdulhai, **Ryan Cheng**, Donovan Clay, Tim Althoff, Sergey Levine, Natasha Jaques.*
Conference on Neural Information Processing Systems (NeurIPS), 2025
- Deception in Dialogue: Evaluating and Mitigating Deceptive Behavior in Large Language Models.**
*Marwa Abdulhai, **Ryan Cheng**, Aryansh Shrivastava, Natasha Jaques, Yarin Gal, Sergey Levine.*
Preprint

RESEARCH EXPERIENCE

- Berkeley Artificial Intelligence Research, Robotics and AI Learning Lab** *April 2024 - Present*
Student Researcher
 - Investigating various techniques for improving task-oriented free-form dialogue from Large Language Models through multi-turn Reinforcement Learning.
 - Designed multiplayer games with several Nash equilibria to evaluate the negotiation strategies and ethics of LLMs.
 - Used multi-turn Reinforcement Learning to train models to reduce inconsistency by over 55% and reduce deception by over 77.6%.
- International Computer Science Institute, UC Berkeley Wagner Research Group** *September 2023 - May 2024*
Student Researcher
 - Designed a novel stateful defense against adversarial attacks to protect query-based machine learning models.
 - Implemented cutting-edge attacks to test this defense using Pytorch and the Adversarial Robustness Toolbox.
- UC Berkeley Condensed Matter Physics, Crommie & Zettl Research Groups** *May 2023 - Present*
Student Researcher
 - Investigated the intercalation of lithium into twisted transition metal dichalcogenides using Raman Spectroscopy and Atomic Force Microscopy, with applications in energy storage and battery technology.
 - Grew metallic crystals for the Zettl group to study materials with novel electronic properties.
 - Designed and assembled an automated vacuum load-lock for the Crommie group using CAD software to transport air-sensitive materials into an ultra-high vacuum environment for study under scanning tunneling microscopes.

SKILLS

Programming:	Advanced Python, Advanced Java, Intermediate C++, Intermediate C, Intermediate Verilog
Software & Tools:	PyTorch, SciPy, SkyRL, pandas, OpenMP, OpenMPI, SIMD, Git, Autodesk Inventor

HONORS/AWARDS

Phi Beta Kappa, Member	<i>February 2025</i>
EECS Honors Student	<i>August 2023</i>
Upsilon Pi Epsilon (CS honor society), Member	<i>September 2022</i>
National Merit Scholarship	<i>July 2021</i>