

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 Srivastava, Natasha Jaques, Yarin Gal, Sergey Levine.

Preprint

RESEARCH EXPERIENCE

Berkeley Artificial Intelligence Research, Robotics and AI Learning Lab <i>Student Researcher</i>	<i>April 2024 - Present</i>
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- 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 <i>Student Researcher</i>	<i>September 2023 - May 2024</i>
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- 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 <i>Student Researcher</i>	<i>May 2023 - Present</i>
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- 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>