

Annie S. Chen

asc8@stanford.edu

<https://anniesch.github.io/>

EDUCATION	Ph.D. in Computer Science, Stanford University Advisor: Chelsea Finn	<i>Sept. 2021 - Present</i>
	M.S. in Computer Science, Stanford University Artificial Intelligence Specialization, GPA: 4.0	<i>Sept. 2020 - June 2021</i>
	B.S. in Mathematics, Stanford University With Distinction	<i>Sept. 2017 - June 2021</i>

FUNDING & AWARDS	NSF Graduate Research Fellowship (2021-2024)
	Microsoft Accelerate Foundation Models Grant (Sept. 2023)
	HAI Google Cloud Credit Grant (Nov. 2022)
	Women in Machine Learning (WiML) Travel Funding Award (Nov. 2022)
	Stanford Mathematics Distinguished Service Award (June 2021)
	University Distinction, top 15% graduating class, Stanford University (June 2021)
	Honorable Mention, Computing Research Association (CRA) Undergraduate Researcher Award (Dec. 2020)
	Outstanding Poster Presentation, Joint Mathematics Meetings (JMM) Undergraduate Poster Session (Jan. 2019)
	J. Perry Bartlett STEM Scholarship (2017-2021), \$40k for undergraduate studies

PREPRINTS & PUBLICATIONS * denotes equal contribution

- [16] Moritz Stephan, Alexander Khazatsky, Eric Mitchell, **Annie S. Chen**, Sheryl Hsu, Archit Sharma, Chelsea Finn. RLVF: Learning from Verbal Feedback without Overgeneralization. *Preprint*, 2024.
- [15] Johnathan Xie*, **Annie S. Chen***, Yoonho Lee, Eric Mitchell, Chelsea Finn. Calibrating Fine-Tuned Language Models via Adaptive Temperature Scaling. *ICLR Workshop on Secure and Trustworthy LLMs*, 2024.
- [14] Caroline Choi*, Yoonho Lee*, **Annie S. Chen**, Allan Zhou, Aditi Raghunathan, Chelsea Finn. AutoFT: Robust Fine-Tuning by Optimizing Hyperparameters on OOD Data. *Preprint*, 2024.
- [13] **Annie S. Chen***, Govind Chada*, Laura Smith, Archit Sharma, Zipeng Fu, Sergey Levine, Chelsea Finn. Adapt On-the-Go: Behavior Modulation for Single-Life Robot Deployment. *NeurIPS Robot Learning Workshop*, 2023.
- [12] **Annie S. Chen**, Yoonho Lee, Amrith Setlur, Sergey Levine, Chelsea Finn. Confidence-Based Model Selection: When to Take Shortcuts for Subpopulation Shifts. *NeurIPS DistShift Workshop*, 2023.
- [11] Johnathan Xie, Yoonho Lee, **Annie S. Chen**, Chelsea Finn. Self-Guided Masked Autoencoders for Domain-Agnostic Self-Supervised Learning. *International Conference on Learning Representations (ICLR)*, 2024.

- [10] **Annie S. Chen***, Yoonho Lee*, Amrith Setlur, Sergey Levine, Chelsea Finn. Project and Probe: Sample-Efficient Domain Adaptation by Interpolating Orthogonal Features. *International Conference on Learning Representations (ICLR)*, [Spotlight \(top 5%\)](#), 2024.
- [9] Siddharth Karamcheti, Suraj Nair, **Annie S. Chen**, Thomas Kollar, Chelsea Finn, Dorsa Sadigh, Percy Liang. Language-Driven Representation Learning for Robotics. *Robotics: Science and Systems (RSS)*. [Best Paper Finalist](#), 2023.
- [8] Yoonho Lee*, **Annie S. Chen***, Fahim Tajwar, Ananya Kumar, Huaxiu Yao, Percy Liang, Chelsea Finn. Surgical Fine-Tuning Improves Adaptation to Distribution Shifts. *International Conference on Learning Representations (ICLR)*, 2023.
- [7] **Annie S. Chen**, Archit Sharma, Sergey Levine, Chelsea Finn. You Only Live Once: Single-Life Reinforcement Learning. *Neural Information Processing Systems (NeurIPS)*, 2022.
- [6] **Annie S. Chen**, Suraj Nair, Chelsea Finn. Learning Generalizable Robotic Reward Functions from “In-The-Wild” Human Videos. *Robotics: Science and Systems (RSS)*, 2021.
- [5] Evan Z. Liu*, Behzad Haghgoo*, **Annie S. Chen***, Aditi Raghunathan, Pang Wei Koh, Shiori Sagawa, Percy Liang, Chelsea Finn. Just Train Twice: Improving Group Robustness without Training Group Information. *International Conference on Machine Learning (ICML)*, [Long Oral \(top 3%\)](#), 2021.
- [4] **Annie S. Chen***, Hyunji Nam*, Suraj Nair*, Chelsea Finn. Batch Exploration with Examples for Scalable Robotic Reinforcement Learning. *International Conference on Robotics and Automation (ICRA)*, 2021.
- [3] Rishi Bommasani, ..., **Annie S. Chen**, ..., Percy Liang. On the Opportunities and Risks of Foundation Models. *Report by the Center for Research on Foundation Models (CRFM)*, 2021.
- [2] Bryce Cai*, **Annie S. Chen***, Ben Heller*, Eyob Tsegaye*. Limit Theorems for Descents in Permutations and Arithmetic Progressions in $\mathbb{Z}/p\mathbb{Z}$. *Outstanding Poster Presentation, Joint Mathematics Meetings Undergraduate Poster Session*, 2019.
- [1] **Annie S. Chen**, T. Alden Gassert, Katherine E. Stange. Index Divisibility in Dynamical Sequences and Cyclic Orbits Modulo p . *New York Journal of Mathematics* 23, 1045-1063, 2017.

EXPERIENCE

CS Researcher

Sept. 2019 - Present

Stanford Artificial Intelligence Laboratory (SAIL), Computer Science Dept.

- Advised by Chelsea Finn.
- Developing scalable methods that improve model adaptability and robustness to distribution shifts.

Research Intern, Student Researcher

June 2021 - Jan. 2022

Brain Robotics, Google, Inc.

- Mentored by Pete Florence and Andy Zeng
- Worked on improving action-conditioned visual dynamics models.

CS Research Assistant *Sept. 2018 - Apr. 2019*
Stanford AI for Human Impact Lab, Computer Science Dept.

- Advised by Prof. Emma Brunskill
- Studied the impact of shared learning autonomy systems in practice.

Math Researcher *June 2018 - Aug. 2018*
Stanford Undergraduate Research Institute in Math (SURIM)

- Mentored by Felipe Hernandez
- Improved bounds on the rate of convergence of various random variables locally to a Gaussian distribution.

**INVITED
TALKS**

Stanford Robotics Seminar *January 2024*
Single-Life Robot Deployment: Adapting On-the-Fly to Novel Scenarios

MosaicML *August 2023*
Surgical Fine-Tuning Improves Adaptation to Distribution Shifts

ICLR TrustML Unlimited Workshop *May 2023*
Project and Probe: Sample-Efficient Domain Adaptation by Interpolating Orthogonal Features

ML Collective DLCT *March 2023*
Project and Probe: Sample-Efficient Domain Adaptation by Interpolating Orthogonal Features

NeurIPS Women in Machine Learning (WiML) Workshop *Nov. 2022*
You Only Live Once: Single-Life Reinforcement Learning

ICLR Self-Supervised Reinforcement Learning Workshop *May 2021*
Learning Generalizable Robotic Reward Functions from “In-The-Wild” Human Videos.

INVOLVEMENT **Community Associate** *Apr. 2023 - Present*
Stanford Graduate Life Office

- Hold multiple events per quarter to foster community engagement and provide support to dorm residents

Mentoring Program Co-Organizer *Oct. 2021 - Present*
Stanford CS Undergraduate Mentoring Program

- Match undergraduate students with graduate student mentors, aimed at increasing the participation of underrepresented minorities in CS

Peer Advisor *Sept. 2019 - June 2021*
Stanford University Mathematics Department

- Held weekly office hours to advise math majors and organized quarterly events

Teaching Assistant *Sept. 2018 - Dec. 2019*
Euler Math Circle

- Taught advanced proof techniques and topics, such as number theory, combinatorics, and analysis, to advanced middle and high school students

Board Member *Oct. 2017 - May 2020*
Stanford Women in Computer Science (WiCS)

- Co-led outreach workshops introducing coding to middle school girls

MENTORING

Undergraduate Students:

Andy Tang, Oct. 2023 - Present

Alec Lessing, Oct. 2023 - Present

Johnathan Xie, Jan. 2023 - Present

Govind Chada, Sept. 2022 - Present

MISC.

Reviewing:

IEEE Robotics and Automation Letters (RA-L): 2021

International Conference on Learning Representations (ICLR): 2022, 2023

International Conference on Machine Learning (ICML): 2024

Conference on Robot Learning (CoRL): 2022, 2023

Neural Information Processing Systems (NeurIPS): 2022, 2023