Max Sobol Mark

maxsobolmark@stanford.edu | https://github.com/MaxSobolMark/ | (650) 260 5071

EDUCATION

Stanford University   **Stanford, CA**

M.S. in Computer Science with AI specialization   *2022 to 2024*
- Teaching assistant:
  - CS 330 (Fall 2022 & 2023) - Deep Multi-Task and Meta Learning (TA in charge of course projects).
  - CS 234 (Winter 2023) - Reinforcement Learning.
  - CS 224R (Spring 2023) - Deep Reinforcement Learning (TA in charge of cloud compute).
- Relevant coursework: STATS 214 (ML Theory); CS 332 (Advanced Survey of RL); CS 329D (ML Under Distribution Shifts); CS 329H (ML from Human Preferences). CS 229 (Machine Learning)

B.S. in Computer Science with AI specialization   *2018 to 2022*
- Honors: Winner of the Taube Center for Jewish Studies' 2022 Short Story Competition.

RESEARCH EXPERIENCE

Stanford's IRIS Lab   **Stanford, CA**

Student Researcher   *Sep 2020 to present*

My research focuses on allowing robots to learn new skills efficiently, and with little human intervention. I've worked on offline-to-online fine-tuning, autonomous RL, and model-based RL.
- **Sobol Mark***, Sharma*, Et. Al., *"Offline RL for Online RL: decoupled policy learning for mitigating exploration bias"*, Under review for ICLR 2024.
- Yang*, **Sobol Mark***, Et. Al., "Robot Fine-Tuning Made Easy"**.** Under review for ICRA 2024.
- Nakamoto, Et. Al., *"Cal-QL"*, NeurIPS 2023.
- **Sobol Mark**, Et. Al., *"Fine-tuning Offline Policies with Optimistic Action Selection"*, NeurIPS Deep RL Workshop 2022.

Stanford's NeuroAI Lab   **Stanford, CA**

Research Assistant   *Sep 2019 to June 2020*

Work on unsupervised learning for videos under the supervision of Prof. Dan Yamins.
- Zhuang, Et. Al., "Unsupervised Learning from Video with Deep Neural Embeddings", CVPR 2020.

* shared first authorship

WORK EXPERIENCE

Google Software Engineering Intern   **Remote @ Mountain View, CA**

Google Images SWE   *Jun 2020 to Sep 2020*
- Worked on Google Images on assigning names to clusters of images.
- Worked with Python, Sklearn, Pandas, Seaborn, and other internal tools.

Google Software Engineering Intern   **Sunnyvale, CA**

Cloud Identity SRE   *Jun 2019 to Sep 2019*
- Cloud Identity Site Reliability Engineer. I created a backup integration testing and restoration framework for Spanner databases. Worked on Golang, Python, and several internal languages and frameworks.

Creactivis: CS + Entrepreneurship for kids   **Buenos Aires, Argentina**

Co-founder and Mentor   *Jan 2015 to Sep 2018*
- Taught small groups of children (10+ different groups of 3-5 people) to program (games, apps, web.)
- Motivated many kids to start their own startups and learn challenging CS topics.

SKILLS
- **Machine Learning:** PyTorch, Jax, worked on projects in RL, NLP, and CV.
- **Programming languages:** Python (8 years), C# (2 years), C++ (3 years), Javascript (5 years).
- **Teaching:** Section leader (2 years), Teaching Assistant for 3 AI classes.