

Yifei Zhou

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EDUCATION

University of California, Berkeley

Aug.2023 - May.2028

Ph.D. in Electrical Engineering and Computer Science

Berkeley, CA

- Advisor: Sergey Levine
- Research Interest: Reinforcement Learning with Foundation Models

Cornell University

Aug.2020 - May.2023

Bachelor of Arts in Computer Science and Mathematics

Ithaca, NY

- GPA: 4.12/4.0
- Pauline and Irvine Tanner Dean's Scholar Scholarship (40/2000+)
- 2023 CRA Outstanding Undergraduate Researcher Finalist

Selected Papers

Yifei Zhou*, Hao Bai*, Mert Cemri, Jiayi Pan, Alane Suhr, Sergey Levine, Aviral Kumar, DigiRL: Training In-The-Wild Device-Control Agents with Autonomous Reinforcement Learning. Preprint.

Jiayi Pan, Yichi Zhang, Nicolas Tomlin, **Yifei Zhou**, Sergey Levine, Alane Suhr, Autonomous Evaluation and Refinement of Digital Agents. Preprint.

Yifei Zhou, Andrea Zanette, Jiayi Pan, Sergey Levine, Aviral Kumar, ArCHer: Training Language Model Agents via Hierarchical Multi-Turn RL. ICML 2024.

Yifei Zhou*, Ayush Sekhari*, Yuda Song, Wen Sun, Offline Data Enhanced On-Policy Policy Gradient with Provable Guarantees. ICLR 2024.

Yifei Zhou*, Juntao Ren*, Fengyu Li*, Ramin Zabih, Ser-Nam Lim, Test-Time Distribution Normalization for Contrastively Learned Vision-language Models. NeurIPS 2023.

Yifei Zhou, Zilu Li, Abhinav Shrivastava, Hengshuang Zhao, Antonio Torralba, Taipeng Tian, Ser-Nam Lim, BT²: Backward Compatible Training with Basis Transformation. ICCV 2023.

Yifei Zhou*, Yuda Song*, Ayush Sekhari, Drew Bagnell, Akshay Krishnamurthy, Wen Sun, Hybrid RL: Using both offline and online data can make RL efficient, ICLR 2023.

Yifei Zhou, Renyu Li, Hayden Housen, Ser-Nam Lim, GAPX: Generalized Autoregressive Paraphrase-identification X, NeurIPS 2022.

EXPERIENCE

Amazon

May.2024 - Aug.2024

Applied Scientist Intern

Santa Clara, CA

- Collaborate with AWS AI and AGI team.
- Work towards autonomous digital agent through reinforcement learning.

Meta AI x University of Maryland

May.2022 - Sep.2022

Research Intern

Ithaca, NY

- Work under UMD-Meta SRA contract.
- Work on the backward compatibility problem that exists in large-scale visual information retrieval system of Meta AI, advised by Dr. Ser-Nam Lim.
- Paper with first-authorship accepted at ICCV 2023.

Professional Services

Reviewer for NeurIPS (2023-2024), ICML (2024), ICLR (2023-2024), CVPR (2023).