Daniel Zeng

danielzeng@stanford.edu linkedin.com/in/daniel-zeng github.com/daniel-zeng **Stanford University** M.S. Computer Science June 2023 University of California, Berkeley **B.A.** Computer Science **GPA 3.96** May 2021

Relevant Courses (*current)

Skills CS224W* - ML with Graphs, CS182 - Neural Networks **Languages:** Python, Java, Golang, Bash, CS330* - Deep Multi-Task and Meta-Learning Javascript, C/C++, Matlab CS285 - Deep Reinforcement Learning, CS188 - AI Platforms/Tools: PyTorch, TensorFlow, EE126 - Probability/Random Processes, CS189 - ML NumPy, Git, AWS, Kubernetes, Terraform, CS170 - Algorithms, CS162 - Operating Systems SQL, matplotlib, Jupyter Notebooks

Experience

SNAP Group | Graduate Researcher, Stanford University

Sept 2021 - Present

Machine learning research, with postdoc Tailin Wu and advised by Professor Jure Leskovec

- Researching neural-symbolic visual concept reasoning for few-shot learning on the ARC dataset
- Implementing unsupervised discovery of concept relations with graph neural networks
- Improving vision and learning pipeline for compositional object-relation correspondence

Yu Lab | Undergraduate Researcher, ICSI, UC Berkeley

Sept 2020 - Aug 2021

Machine learning computer vision research, with Tsung-Wei Ke and advised by Dr. Stella Yu

- Researched unsupervised image representation learning using pixel-level contrastive learning
- Implemented and benchmarked featurizations on image classification image embeddings
- Investigated spatial and structural relationships on classification and retrieval performance

Stripe | Software Engineer Intern, Data Platform Infrastructure

May 2020 - Aug 2020

- Implemented, designed Hadoop command proxy service with Go, gRPC on AWS, Kubernetes
- Deployed service to production which proxied 1000+ commands so far (reliable, scalable)
- Built observability dashboard for service via SignalFX and alerting, detectors via Terraform

AutoLab | Undergrad Researcher, Berkeley Artificial Intelligence Research Feb 2019 - Feb 2020

Machine learning research, with postdoc Dr. Ajay Tanwani and advised by Professor Ken Goldberg

- Researched semi-supervised domain adaptation using adversarial representation learning
- Implemented and benchmarked adaptation algorithms, network architectures, metric learning
- Optimized adaption by aligning marginal and conditional distributions in latent feature space

Microsoft | Software Engineer Intern, Azure Production Infrastructure May 2019 - Aug 2019

- Designed, developed analytics tool to automate queries for optimizing customer experience
- Built productivity tooling to empower visualization and observability in Azure infra systems

NASA | Software Engineer/Research Intern, Ames Research Center

June 2018 - Aug 2018

- Developed simulation for cyber security attacks on Air Traffic Management (ATM) system
- Built and tested functionality to generate and visualize diverse attack scenarios
- Created internal tooling to configure and interface ATM framework components with simulator