

# Daniel Zeng

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## Stanford University

M.S. Computer Science

GPA 3.91

June 2023

## University of California, Berkeley

B.A. Computer Science

GPA 3.96

May 2021

## Relevant Courses

CS224W - ML with Graphs, CS182 - Neural Networks  
CS330 - Deep Multi-Task and Meta-Learning  
CS285 - Deep Reinforcement Learning, CS188 - AI  
EE126 - Probability/Random Processes, CS189 - ML  
CS224N - NLP, CS162 - Operating Systems

## Skills

**Languages:** Python, Java, Golang, Bash,  
Javascript, C/C++, Matlab

**Platforms/Tools:** PyTorch, TensorFlow,  
NumPy, Git, AWS, Kubernetes, Terraform,  
SQL, matplotlib, Jupyter Notebooks

## Publications

Daniel Zeng, Tailin Wu, Jure Leskovec. *ViRel: Unsupervised Visual Relations Discovery with Graph-level Analogy*. ICML 2022 Beyond Bayes (Reasoning) Workshop. <https://arxiv.org/abs/2207.00590>

## Experience

### Google | Research Intern, Health AI

June 2022 - Sept 2022

- Researched knowledge distillation of DermAssist model ensemble to achieve efficient models
- Implemented learning pipeline to match teacher and student probability predictions
- Experimented with training techniques to optimize distillation and baseline performance

### 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 semantic segmentation 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