

EDUCATION

- **Stanford University** Stanford, CA
Master of Science – MS, Computer Science Apr. 2019 - Dec. 2021 (*Expected*)
- **Stanford University** Stanford, CA
Bachelor of Science – BS, Computer Science Sep. 2016 - Apr. 2020 (*Graduated*)

EXPERIENCE

- **Google** Sunnyvale, CA
Software Engineer Intern Jun. 2020 - Sep. 2020
 - **Team:** Google Cloud TPU AutoML
 - **Project:** Implemented deep learning models, ResNeSt and RegNet, in TensorFlow to run novel experiments measuring throughput on TPU for direct comparisons to EfficientNet-X. Results include 74.7% throughput increase with ResNeSt porting from NVIDIA Tesla V100 GPU (float32) to TPU v3 (float32) and 120% increase porting to TPU v3 (bfloat16).
- **Verkada** San Mateo, CA
Software Engineer Intern Mar. 2020 - Jun. 2020
 - **Team:** People/Vehicle Search
 - **Project:** Pushed to production various improvements for facial recognition and vehicle detection. Worked on AWS backend and computer vision pipeline for Verkada's enterprise video security camera system. Deployed feature to mitigate occluded faces matching to each other as false positives (e.g. faces with masks).

RESEARCH

- **Stanford Artificial Intelligence Lab** Stanford, CA
Graduate Research Assistant Sep. 2019 - Present
 - **Group:** Stanford Vision and Learning Lab – Video Understanding, advised by Juan Carlos Nieves
 - **Project:** Computer vision research in video action recognition. Developed a novel, generalized framework of multi-task learning to mitigate scene bias in video action recognition by penalizing scene recognition as an adversarial task. *CVPR 2021 publication submission pending review.*

TEACHING ASSISTANTSHIPS

- **CS 224S: Spoken Language Processing** Stanford University
Graduate Teaching Assistant Winter 2020-2021
 - **Responsibilities:** Assist teaching of deep learning for automatic speech recognition, speech synthesis, affect detection, dialogue management, and applications to digital assistants. Instructed by Andrew Maas.
- **CS 271: Artificial Intelligence in Healthcare** Stanford University
Graduate Teaching Assistant Autumn 2020-2021
 - **Responsibilities:** Created/graded deep learning assignments for graduate-level course for healthcare tasks using image, text, multimodal and time-series medical data. Instructed by Serena Yeung.
- **CS 41: The Python Programming Language** Stanford University
Teaching Assistant Winter 2019-2020
 - **Responsibilities:** Taught grad/undergrad students fundamental Python data-analysis libraries for ML.

SKILLS

- **Languages:** Python, C++, C, Java, JavaScript, SQL
- **Technologies:** TensorFlow, Keras, PyTorch, Linux, GCP, AWS, Docker, CircleCI, Sentry, React, Git
- **Research Experience:** Computer Vision, Natural Language Processing, Deep Learning/AI/ML