

# Samuel Kwong

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San Francisco Bay Area  
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## EDUCATION

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- **Stanford University** Stanford, CA  
Master of Science – MS, Computer Science Apr. 2019 - Present
- **Stanford University** Stanford, CA  
Bachelor of Science – BS, Computer Science Sep. 2016 - Apr. 2020

## EXPERIENCE

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- **Google** Sunnyvale, CA  
Software Engineer Intern Jun. 2020 - Sep. 2020
  - **Team:** Google Cloud TPU AutoML
  - **Project:** Deep learning for performance on TPU accelerators. Implemented state-of-the-art deep neural networks in TensorFlow for novel TPU experiments across Cloud and AutoML teams.
- **Verkada** San Mateo, CA  
Software Engineer Intern Mar. 2020 - Jun. 2020
  - **Team:** People/Vehicle Search
  - **Project:** Backend and computer vision pipeline for enterprise video camera security. Deployed feature improvements in cloud and edge pipelines 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

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- **Stanford Artificial Intelligence Lab** Stanford, CA  
Graduate Research Assistant Sep. 2019 - Mar. 2021
  - **Group:** Stanford Vision and Learning Lab – Video Understanding, advised by Juan Carlos Niebles
  - **Project:** Computer vision research in video understanding. 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.

## TEACHING

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- **CS 231N: Convolutional Neural Networks for Visual Recognition** Stanford University  
Graduate Teaching Assistant, instructed by Fei-Fei Li, Ranjay Krishna, and Danfei Xu Spring 2020-2021
- **CS 224S: Spoken Language Processing** Stanford University  
Graduate Teaching Assistant, instructed by Andrew Maas Winter 2020-2021
- **CS 271: Artificial Intelligence in Healthcare** Stanford University  
Graduate Teaching Assistant, instructed by Serena Yeung Autumn 2020-2021
- **CS 41: The Python Programming Language** Stanford University  
Teaching Assistant Winter 2019-2020

*Last updated Mar. 2021*