

Mason Wang

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Education

Saratoga High School

Saratoga, CA

CONCURRENTLY ENROLLED AT WEST VALLEY COLLEGE AND Foothill College

Aug. 2019 - June 2023

- GPA: **4.00** (10-12: **4.55**)
- **ASB President**, ASB Secretary, Sophomore Class Treasurer, Freshman Class President
- CS Club President, AI Club President
- Varsity Basketball (since Freshman year)
- Freshman SAT Score: 1530
- AP Credits: Calculus BC (5), Computer Science (5), Macroeconomics (5), Microeconomics (5), Statistics, US History, Chemistry
 - Awarded AP Scholar with Honor
- Relevant concurrently enrolled coursework (GPA: **4.00**): Computer Architecture and Organization, Network Basics, Intro to Database Management Systems, Firewalls and Threat Management, Cybersecurity Fundamentals, Intro to Cloud Computing (AWS), Database Essentials (AWS), Compute Engines (AWS)

Skills: Python, Java, C++, C, Numpy, Pytorch, Tensorflow/Keras, React, Git, Javascript, Typescript, HTML, CSS, Swift, SQL, Matplotlib, Pandas, Node.js, Express, Shell scripting (Linux)

Experience

UC Santa Barbara Four Eyes Lab

Santa Barbara, CA

UNDERGRADUATE RESEARCHER

Aug. 2021 - Present

- Advised by Tobias Höllerer (CS) and Pradeep Sen (EECS)
- Continued research after summer session
- Research topics: multimodal machine learning and learning with noisy labels

UC Santa Barbara Research Mentorship Program (3.75% Acceptance Rate)

Santa Barbara, CA

STUDENT RESEARCHER

June 2021 - July 2021

- Conducted university-level research on machine learning for 6 weeks

ZelusTek (a MediaTek subsidiary)

Shenzhen, China

SOFTWARE ENGINEERING INTERN

May 2019 - July 2019

- Utilizing Mediatek's core hardware to develop decentralized edge AI solutions
- Optimized and designed training pipeline for a compact age estimation neural network, SSR-Net

Research

Sparse Fusion for Multimodal Transformers

Under Review at CVPR 2022

YI DING*, ALEX RICH*, **MASON WANG**, NOAH STIER, MATTHEW TURK, PRADEEP SENI, TOBIAS HÖLLERER

Nov. 2021

- Presents a novel multimodal fusion method (Sparse Fusion Transformer; SFT) for transformers
- Performs comparably to existing state-of-the-art methods with significant reduction in computation and memory requirements

Interpolating Latent Representations to Increase Label Noise Tolerance

UC Santa Barbara RMP 2021

MASON WANG, YI DING

Jul. 2021

- Proposes a modality-agnostic label noise tolerant technique based on the *mixup* data augmentation technique
- Reduces the memorization of corrupt labels, which can alleviate the issue of noisy labels

CLEFNET: Recurrent Autoencoders with Dynamic Time Warping for Near-Lossless Music Compression and Minimal-Latency Transmission

Preprint

VIGNAV RAMESH, **MASON WANG***

March 2021

- Proposes an architecture (Latent Space) for a platform with near-lossless audio transmission for virtual music collaboration

Honors & Awards

- 2020 **3rd Place at HackMIT**, created an ML-powered virtual music collaboration platform. *1,100+ competitors.*
- 2020 **3rd Place at COVIDathon**, built a decentralized PWA to strengthen communities. *1,300+ competitors.*
- 2020 **1st Place at LAHacks (UCLA)**, created a PWA targeting the field of smart infrastructure. *1,100+ competitors.*