

Calvin-Khang Ta

COMPUTER VISION RESEARCHER | SOFTWARE ENGINEER

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Experience

University of California, Riverside | Video Computing Group

Riverside, CA

GRADUATE RESEARCH ASSISTANT

Jan. 2020 - PRESENT

- Developing automated image analysis pipelines for biological modeling research of Shoot Apical Meristem of Arabidopsis and increasing throughput of existing code base by 400%.
- Working on developing self-supervised image enhancement algorithms through exploring sparse representations and implicit network priors.
- Assisted in the development of adversarial attacks on deep learning based classifiers across domains.

Amazon.com

San Francisco, CA

GRADUATE SDE INTERN

June. 2020 - Sept. 2020

- Fullstack development on the Goodreads team

University of California, Riverside

Riverside, CA

TEACHING ASSISTANT

Jan. 2020 - PRESENT

- In charge of the lab sections for CS 12- Intro to Programming for Computer Scientist and Engineers II
- Taught undergraduates basic algorithms and C++ features.

Amazon.com

Tempe, AZ

GRADUATE SDE INTERN

June. 2019 - Sept. 2019

- Working with Seller Partner Promotions Team

Amazon Web Services

Seattle, WA

SDE INTERN

June. 2018 - Sept. 2018

- Worked on the AWS Comprehend Team. AWS Comprehend is a natural language processing API that offers NLP services such as sentiment analysis and key-phrase extraction.
- Project involved technologies such as MXNet and varying AWS Services

General Atomics Aeronautical Systems

San Diego, CA

DATA LINKS AND ADVANCED CONCEPTS INTERN II

Jun. 2017 - Aug. 2017

- Projects ranged from developing chat bots to coordinate with air traffic control to extending a Holo Lens demo of a potential future project

Selected Publications

Noise2Sparse: Self-Supervised Poisson Denoising From a Single Image

Submitted to MICCAI 2022

CALVIN-KHANG TA, ABHISHEK AICH, AKASH GUPTA, AMIT K. ROY-CHOWDHURY

- In this work, we explore a sparsity and dictionary learning-based approach for self-supervised single image denoising, where the noise is approximated as a Poisson process

Skills

Languages Python, C/C++, Java, MATLAB, Shell Script

Libraries|Tools Git, cmake, nmap, vagrant, ansible, Unity, OpenCV, numpy, pandas, Pytorch, AWS, Docker

Education

University of California, Riverside

Riverside, CA

B.S. COMPUTER SCIENCE

June 2019

University of California, Riverside

Riverside, CA

PHD COMPUTER SCIENCE

June 2024