

LONG TRUONG

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EDUCATION

California State Polytechnic University, Pomona - Bachelor of Science in Computer Science *Aug 2019 – May 2021*

- GPA: 4.0/4.0 – College of Science Julian A. McPhee Scholar and **Valedictorian**

Pasadena City College – AS-T in Physics, AS-T in Mathematics, AS in Computer Science *Aug 2017 - Jun 2019*

- GPA: 4.0/4.0 – Dean's List, President's Honor List

Relevant Coursework: Machine Learning and Applications, Natural Language Processing (Master level), Statistics, Linear Algebra, Big Data Analytics and Cloud Computing, Software Engineering

Research Interest: Real-life applications of Deep Reinforcement Learning and Computer Vision models

WORK EXPERIENCE

Research Assistant – College of Engineering, Cal Poly Pomona *May 2020 – Current*

- Leading a team of 7 people to conduct research about applications of different computer vision deep learning models to enhance the field of transportation and engineering under the guidance of Dr. Wen Cheng and Dr. Omar E. Mora.
- Performing the statistical analysis relationship between model's performance and different factors such as training paradigms, hyperparameters, architecture components, backbone models.

EOP Peer Tutor – Student Support & Equity Programs, Cal Poly Pomona *Sep 2019 – May 2020*

- Assisted seven or more students weekly through one-on-one tutorial sessions in math, physics, and computer science courses.
- Evaluated tutees' learning progress and advised on study skills and strategies weekly improving their academic performance to become independent thinker, effective decision maker, and creative problem solver.

Mathematics Tutor - Learning Assistance Center, Pasadena City College *Mar 2018 – Jun 2019*

- Strengthened students' understanding in math-related subjects ranging from College Algebra to Linear Algebra.

PROJECTS

Sight Distance Measurement using 3D Deep Learning *Research Project* *2022*

- Developed a framework to measure accurately sight distance at any position along the road on point cloud dataset using PointNet, PointNet++, and Frustum PointNet

Abstract Generation on COVID-19 Articles *Final Project* *Spring 2021*

- Determined optimal approach in generating abstract for COVID-19 research articles using weight-based extraction, T5 Transformer, BART model

Job Application Manager *Term Project* *Fall 2020*

- Collaborated with 4 other undergraduate fellows to develop a web service that manages job search process hosted using AWS
- Implemented automated information fetching such as interview time/date, position title, organization name, application status through email using StanfordCoreNLP and Gmail API, which automated job status transition in Kanban job tracking board

Machine Learning and Applications *In-class competitions* *Fall 2019*

- Trained UNet, PrismaNet, FCN8 with transfer learning and data augmentation to perform hair segmentation on a limited dataset of 1500 images with best accuracy of **80%** (5th position with the highest score of 84.84%)
- Predicted facial expression in images with **84.48%** accuracy by training variations of CNN model with data cleaning and data augmentation using Python, Pandas, and TensorFlow in Google Colab (5th position with the highest score of 84.84%)

Hackathon NASA Space Apps Challenge *First Prize in Earth and Climate Conservation category* *Fall 2018*

- Sorted and loaded the data about future rocket launches around the world until 2024 such as schedule, mission, weather, and launch area's pollution, which was fetched using Python and APIs into the database

ACTIVITIES & LEADERSHIP

Co-President – Software Engineering Association, Cal Poly Pomona *May 2020 – Jun 2021*

- Organized workshops to provide fundamentals of interviewing skills and knowledge needed to successfully land a full-time or internship position in computer and technology field.
- Invited alumni to share personal insights in job/internship searching and hosted resume review session

Team Leader - Computer Science Club, Pasadena City College *Aug 2017- Jun 2018*

- Presented multiple workshops to teach basic Python and Java for beginners.
- Collaborated with other team leaders to organize useful programming materials for club members

HONORS & AWARDS

First Prize Winner of Hackathon NASA Space Apps Challenge (2018); Pasadena City College Honors in Mathematics (2019); **Dwight David Eisenhower Transportation Fellowship Program** (2020); **Julian A. McPhee Scholar and Valedictorian** (2021); **Research Distinction Award** (2021).

PUBLICATIONS & CONFERENCES

1 first author; 2 virtual conference presentations; **1 first author manuscript under publication;** 2 first author & 4 co-author manuscript under review