Gonglin Chen

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Education

University of Southern California — Los Angeles, California
M.S. in Applied Data Science; ***GPA: 3.85/4.00*** — *Jan 2023 – Jun 2024 (Expected)*

University of California, Davis — Davis, California
B.S. in Statistics, Machine Learning; ***Major GPA: 3.80/100*** — *Sep 2017 – Jun 2023*

Experiences

USC Institute for Creative Technologies — Los Angeles, California
Research Assistant — *Jun 2023 – Present*

- Worked in the Vision Graphics Lab under Prof. Yajie Zhao on a project about feature matching.
- Implemented and designed model architectures based on Vision Transformer and Convolutional Neural Networks (CNN) using ***PyTorch***

University of California, Davis — Davis, California
Undergraduate Research Assistant — *Jan 2022 – Jun 2022*

- Collaborated with Ph.D. Candidate Zitong Zhao from the Department of Physics to apply machine learning algorithms in the field of Physics, contributing to research and exploring new possibilities at the intersection of machine learning and Physics.
- Developed feature engineering scripts using ***Python*** to transform complex molecular structures into machine-readable formats for training
- Designed and trained models using ***TensorFlow***, and conducted experiments to evaluate their effectiveness.
- Machine Learning-based defect identification method at the c-Si/a-Si:H interface (IEEE, PVSC 50, Poster Session)

Newland (000997, SZ) — Fuzhou, Fujian, China
AI Engineer Intern — *Dec 2020 – Mar 2021*

- Worked collaboratively with other engineers in the Department of AI Research & Development; participated on multiple ***computer vision*** projects, including smart store, garbage classification, and facial recognition.
- Leveraged Python to augment image data, resulting in a ***3% increase*** in model accuracy for object detection.
- Implemented YOLOv3's output layer, enabling local testing and reducing the time required for fine-tuning.
- Individually trained and deployed 4 models for demonstration purposes at the Fourth Digital China Summit.
- Developed comprehensive training, deployment, and testing procedures that were adopted by the department.
- Collectively prototyped existing projects using ***TensorFlow*** for updating our products.
- Mentored and trained new intern to ensure smooth on boarding and integration into the team.

University of California, Davis — Davis, California
Undergraduate Research Assistant — *Dec 2019 – Mar 2020*

- Worked under Prof. Helen Dahlke from the Department of Land, Air, and Water Resources on the project related to analysing climate change data.
- Cleaned and engineered a large data-set of over 3 million records using ***R*** into daily, monthly, seasonal and annual subsets, ensuring data quality and accuracy for further analysis.
- Conducted statistical analysis using methods such as the Mann-Kendall Trend test and Time series analysis and interpreted the statistical results which were adopted for public education on climate-related issues.
- Visualized the data using ***ggplot2***, creating clear and informative graphs that helped to illustrate patterns and trends in the data.

Skills

Specialization: Computer Vision, Machine Learning, Data Visualization
Programming: Java, Python, MATLAB, R, MySQL, HDFS, Spark, HTML, JavaScript, MongoDB
Technologies: Git, Linux, Docker, AWS, TensorFlow, PyTorch, Firebase
Languages: Mandarin (Native), English (Professional)