Gonglin Chen

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Education

University of Southern California — Los Angeles, California
M.S. in Applied Data Science; ***Cumulative 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*

Course Highlight

Machine Learning, Statistical Learning, Natural Language Processing, Data Management, Data Visualization, Big Data, Web Technologies.

Experiences

USC Institute for Creative Technologies, Vision & Graphics Lab — Los Angeles, California
Research Assistant — *Jun 2022 – Present*

- Working on designing and implementing a model using ***Torch Lightening*** for feature matching between images with large scales and viewpoints change.

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

- Designed and trained models that can predicts whether electronic orbits get localized on a given atom using ***TensorFlow***, and conducted experiments to evaluate their effectiveness.
- Developed feature engineering scripts using ***Python*** for data cleaning and engineering.

Newland (000997, SZ), Newland Edu — 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.
- 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; using ***Caffe*** framework for training the model and ***Docker*** for deployment.
- Collectively prototyped existing projects using ***TensorFlow*** for updating our products.

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

- Collected and analyzed data from climate monitoring stations for the past 30 years in central California to prove and visualize climate change in California using ***R***.
- Conducted statistical analysis using methods such as the Mann-Kendall Trend test and Time series analysis; 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.

Publications

Z. Zhao, ***G. Chen***, R. V. Meidanshahi, and G. T. Zimányi, "Machine Learning-based defect identification method at the c-Si/a-Si:H interface", in Proceedings of the 50th IEEE Photovoltaic Specialists Conference (PVSC 50), San Juan, Puerto Rico, 2023.

Skills

Specialization: Computer Vision, Machine Learning, Data Visualization

Programming: Java, Python, MATLAB, R, MySQL, HDFS, Spark, JavaScript, MongoDB, Git, Linux, Docker, AWS, TensorFlow, PyTorch, Firebase

Languages: Mandarin (Native), English (Professional)