

WILL CHEN

willchenyh.github.io

Looking for internship opportunities in data science and machine learning

EDUCATION

06/2017	B.S. Electrical Engineering	University of California, San Diego	GPA: 3.5/4.0
06/2019	M.S. Machine Learning and Data Science	University of California, San Diego	GPA: 3.9/4.0

RELEVANT COURSES

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|------------------------|------------------|---------------------------------|
| • Neural Networks | • Linear Algebra | • Data Structures |
| • Statistical Learning | • Probability | • Software Tools and Techniques |

SKILLS/QUALIFICATIONS

- Proficient in Python, MATLAB
- Experience with Linux, OpenCV, Caffe, Keras, TensorFlow, SQL

EXPERIENCES

Machine Learning Intern, AV Lab, San Diego (07/17 – 09/17)

- Researched and learned various unsupervised clustering techniques
- Applied clustering methods from Scikit library on astrophysical data
- Built Recurrent Neural Networks in Keras to classify astrophysical activities

Research Assistant, Statistical Visual Computing Lab, UCSD (01/17 – 09/17)

- Performed plankton classification on various taxonomical levels, using Convolutional Neural Networks, and achieved above 90% accuracy
- Fine-tuned AlexNet, pre-trained on ImageNet dataset, on Caffe platform for classification tasks
- Extracted latent variables from neural networks and used SVM for classification
- Created a plankton pose predictor with a modified AlexNet
- Generated various types of images using Deep Convolutional Generative Adversarial Networks

Teaching Assistant, Electrical and Computer Engineering Department, UCSD (09/16 – 12/17)

- Developed a face recognition system in Keras with VGG16 network and used AWS EC2 services
- Wrote detailed instructional materials on introductory Python and computer vision programs
- Led class discussions on deep learning applications in computer vision

Research Assistant, Cleveland Lab, Ludwig Institute for Cancer Research (05/16 – 12/16)

- Processed microscope images to locate and count neuromuscular junctions
- Wrote Python programs to process thousands of images, resulting in increased productivity of the lab
- Applied various techniques on images, including thresholding and filtering, to reduce false positives, making the results more accurate

PROJECTS

Visualization on Flight Delays (10/17)

- Cleaned and organized flight delay data from Department of Transportation website
- Created visualizations with tools including matplotlib, bokeh and seaborn

House Price Prediction (12/17)

- Processed data, and applied linear, tree-based and stacked models for prediction

LEADERSHIP

Vice President External, Institute of Electrical and Electronic Engineers (IEEE), UCSD (05/16 – 05/17)

- Led weekly internal meetings, provided oversight to officers, helped managing responsibilities including sponsorship applications, event logistics, and website maintenance, resulting in the organization's effective operation