Shuyun (Jerry) Tang

Contact Information

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Education

Bachelor of Science, University of California Santa Barbara   **September 2019 - June 2021**

Major: Statistics and Data Science
GPA: **3.91/ 4.0** (Honor Student / Dean's Honor receiver)
National Honors Society North FL Chapter Scholarship reciever.
Selected Expected and Past Coursework:
- **Statistics and Data Science**: Probability and Statistics; Bayesian Analysis; Regression Analysis; Design of Experiment; Machine Learning; Data Science Thesis; NLP; Deep Learning; Theoretical Computer Science, etc.
- **Math**: Vector Calculus, ODE, Linear Algebra, Number Theories, Numerical Analysis, etc.

Exchange Researcher, Frontier Intelligence Lab, Osaka University   **April 2021 - August 2021**

UCEAP candidate of Frontier Intelligence Lab, Osaka University. In the incoming spring semester, conduct research with the thesis of "Graph Neuron Networks Application in the AI Robotics Visions".

Professional Experience

Competition Expert, Kaggle   **May 2020 - Present**

Kaggle competition expert ranked **980,** out of 1 million users. Profile can be found at www.kaggle.com/tangshuyun/competitions
Won 4 silver medals and 1 bronze medal in researched-based deep learning competitions:
- **Cornell Bird Identification, Silver Medal (top 5%)**: Bird audio prediction, segmentation based on ResNets with Librosa/SED and custom post-process.
- **Google Landmark Recognition, Silver medal (top 6%):** Landmark images recognition based on EfficientNet with refined GeM pooling, ArcFace Margin loss.
- **Halite By Two Sigma, Silver medal (top 2%)**: AI game agent development based on Reinforcement Learning (DQN) and ruled-base algorithms.
- **Global Wheat Detection, Solo Bronze medal (top 7%)**: Wheat ears detection and feature extraction based on YoloV3 and ResNets with pseudo labeling, TTA, stacking.

Project Manager, UCSB Data Science Club   **September 2019 -Present**

Working as the project "SSH Port 22 Hacker Passwords Pattern" manager. Responsible in organizing team's workflow, utilizing K-mean, PCA, Hamming Distance, and custom data preprocess to analyze more than 40,000 passwords' pattern. Selected to present in the Annual UCSB Data Science Showcase.
Project Repository: github.com/44Shu/SSH-Hacker-Pattern-Recog

Internship/Work Experience

Learning Assistant, UCSB Statistics Department   **October 2020 - Present**

Undergraduate Learning Assistant assisted Dr. Holmes in **PSTAT10:** Principles of Data Science. Responsible for grading, preparing curriculum, the teaching of open labs, and office hours. Topics include data analysis in R and SQL.

Research Assistant, UCSB Education Department   **October 2020 - Present**

Research Assistant in the Engineering Exploration by Prof. Harlow, which designs advanced engineering curriculums. Responsible for processing and coding the interviewing data, surveys, teachers' audio. Further analyzed them using machine learning, NLP methods.

Test Engineer Intern, Pax Technology (USA)   **March 2019 - May 2019**

Responsible for testing 5 versions for the company's point-of-sale machines. Designed testing pipelines and procedures, analyzed the test data, including reviews, mock transactions, and generated reports.

Financial Analyst Intern, Oriental Ginza Financial Holding, Shenzhen, China   **June 2018 - July 2018**

Financial analyst assistant summer internship. Responsible for analyzing supply chain data and departments' statistics using SQL and SAS.

Brand Designer, Original Throw   **July 2017 - Present**

Established the yo-yo accessory brand Original Throw, developed more than 10 products, which are currently the best seller of yo-yo accessories in China. Exported to yo-yo shops and retailers in North America, Japan, Europe.

Skills

Programming Languages: Python, C++, R, SQL, SAS, Julia.
Natural Language: Bilingual proficiency in English and Mandarin Chinese. Nearly fluent in Japanese (passed jlpt N3 test).
Libraries: PyTorch, Keras, TensorFlow, XGBoost, LightGBM, Numpy, Pandas, Scikit-learn, Seaborn, Altair.
Other hobbies: Professional sponsored competitive yo-yo player: ranked 8th in the world, 3rd in national, FL state champion.