

Jiun Y. Yen

PhD

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Website

<https://qks1lver.github.io/>

Github

<https://github.com/qks1lver>

Skill set keywords

Python

MATLAB

SQL

Data Science

Machine Learning

Scikit-learn

TensorFlow (Keras)

Pandas

Matplotlib

HPC

REST API

Web dev

Django / Selenium

Bioinformatics

Computational Biology

+

Agile / Scrum

Jira / Confluence

Git

Slack

Summary

- Python developer
- 7 years of statistical analysis and 3 years of machine learning
- Strong problem solving and communication skills.
- Lead multiple scientific projects to success

Education

Ph.D., Biological Systems Engineering Virginia Tech, 2017

- GPA 3.70 *magna cum laude*
- **Courses:** model and simulation, biometry

M.S., Biological Systems Engineering Virginia Tech, 2013

- 2012 Outstanding Master's Student – The Graduate School of Virginia Tech
- **Courses:** managerial statistics, engineering math, data management

B.S., Biological Sciences – Biotechnology (CS minor) Virginia Tech, 2010

- Phyllis G. and Reginald H. Nelson IV Graduate Scholarship
- **Courses:** object-oriented dev, system design, data structure, discrete math

Machine Learning Certification Coursera (4Q7JC5C2DLKX), 2018

Experience

Software Engineer Presto, 2019 – Present

- Maintained and developed APIs for concurrent interaction between Android devices and point-of-sale systems.

Postdoctoral Fellow Carnegie Institute for Science, 2017 – 2019

- Classify protein locations within the cell. Compiled gold-standard dataset. Applied supervised learning on heavily imbalanced dataset for this multi-label classification problem. Used Scikit-learn with custom minority-oversampling implementation.
- Core technical contributor to a proposal that received over \$2 million of funding.

Graduate Research Assistant Virginia Tech, 2010 - 2017

- Classify living tissue developmental stage. Applied discriminant analysis on signal data from in-house Raman spectroscopy experiments.
- Developed novel derivative-free (i.e. problems with no gradient) optimization algorithm.
- President of Alpha Epsilon honor society and received national Most Outstanding Chapter Award for my term.

Open-Source Contributor

- Forecast stock movement and assess financial states of 8000+ publicly traded companies. Build custom tools to scrape stock history and financial data from the web. Applied multiple statistical methods ranging from classical regression to machine learning.