

YANTAO ZHANG

zh6tao@gmail.com

Xi'an, 710049 ◇ Shaanxi, China

github: zhyantao ◇ blog: getstarted.rtfd.io

EDUCATION

Xi'an Jiaotong University

2020 - 2023

Software Engineering Masters in 2023

School of Software Engineering, 2020

North China University of Science and Technology

2016 - 2020

BA in Electronic Information Engineering

DATA ANALYTICS SKILLS

Programming Languages

C/C++, Java, Python, SQL, Bash, MATLAB

Python Packages

Pandas, Matplotlib, Numpy, Scipy, F2py, Psycopg2,
BeautifulSoup, Selenium, Spacepy, Davitpy, Jupyter

Software & Tools

Linux, Git, HTML, LaTeX

EXPERIENCE

Insight Data Science

June 2016 - August 2016

Fellow

- Developed a program to analyze Fitness Tracker data and compare results with weather information from Weather Underground, providing user with an analysis how to optimize their activity based on past habits.
- Wrote an API to web scrape Polar Loop Fitness Tracker data
- Data was obtained with Selenium, Data was managed through SQL, Pandas and Scipy were used for analysis, and Matplotlib was used for visualizations

NSF Graduate Research Fellow

September 2013 - September 2016

Graduate Research Assistant

- Analyzed multiple time series satellite data sets (> 1 Tb of data) to explore low energy ion loss in the inner Plasmasphere
- Developed an analytic model to demonstrate loss of ions from increased wave activity
- Developed algorithm to properly account for variability in the low energy ion pitch angle measurements when calculating partial ion densities.

ACHIEVEMENTS

Michigan Institute for Computational Discovery Fellow

Spring 2015

NSF GROW Fellowship Awardee

Spring 2015

Community Coordinated Modeling Center Research Winner

Spring 2015

NSF Graduate Research Fellowship Program Fellow

Spring 2014

Rackham Merit Fellow

Fall 2013

Template Developer for LaTeX

September 2013 - Present

Backpacker and Hiking Enthusiast - have climbed $7 > 14,000$ ft peaks