YANTAO ZHANG

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Xi'an ⋄ 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	Python, SQL, Bash, IDL, Fortran, C/C++, MATLAB
Python Packages	Pandas, Matplotlib, Numpy, Scipy, F2py, Psycopg2, BeautifulSoup, Selenium, Spacepy, Davitpy, Jupyter
Software & Tools	HTML, LaTeX, Excel, Mathematica

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 Reseach 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	