

# YANTAO ZHANG

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Github: zhyantao ◇ Blog: getstarted.rtfld.io

## EDUCATION

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### 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

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### 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

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### 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

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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