

Yongjin Jiang

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Portfolio: <https://yongjinjiang.github.io/portfolio/>

Personal Statement

Business-minded Data Scientist with nearly twenty years' experience in coding and modeling in the field of theoretical physics. Successfully, published about 30 scientific papers and won an outstanding researcher award. A graduate from the University of Minnesota, Data Visualization and Analytics Bootcamp. Extensive research experience in quantum modeling and numerical simulation of nano-structured materials. A creative, critical thinker with a strong eagerness for learning and employing advanced skills to maximize scalability and drive feasible results. Proven ability in performing data visualization and analytics using Python, Matlab, statistical modeling, and more. Expertly equipped with statistical modeling and provide data report with valuable business insights.

Education/Certificates

- [Data Visualization and analytics](#) Bootcamp, 2018.8-2019.2, University of Minnesota
----- A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data and Machine Learning
- [Deep Learning Specialization](#), 2018.10-2019.2, coursera online course
----- learn about Convolutional networks, RNNs, LSTM, Adam, Dropout, BatchNorm, Xavier/He initialization, and more. You will work on case studies from healthcare, autonomous driving, sign language reading, music generation, and natural language processing. You will master not only the theory, but also see how it is applied in industry.
- Ph.D in Theoretical Physics, 2002, Fudan University, Shanghai, China

Skills

- Databases: MySQL, MongoDB, SQLite
- Programming: Python, Javascript, Excel/VBA, R, Tableau, Matlab, Mathematica, Fortran
- Mathematics and Statistics: Calculus, Linear Algebra, Complex Functions, Partial Differential Equations, Group Theory, Numerical Optimization, Numerical Linear Algebra, Statistical Mechanics, Green's function, Kernel Methods, Monte Carlo simulation.
- Machine Learning and Deep Learning: Regression, CNN, RNN, tensorflow
- Others: Social data mining, web scraping, git/github

Selected Projects

- [D3 Journalism](#)
--- A data tool for series of feature stories about the health risks facing particular demographics. d3.js is heavily used in this app.
- [Global Earthquake Map](#)
--- A global earthquake map (for past 7 days) is shown with a dropdown for layer choice. Leaflet.js and geojson data format is leveraged upon.
- [MySQL Sakila](#)
--- MySQL queries for a database, a standard schema that can be used for examples in books, tutorials, articles, etc.
- Pandas_HeroesOfPymoli
- WebScraping_MissionToMars
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Portfolio

- More about me can be found [here](#).