Zijie Zhang | Resume

Intention: *Research, Machine Learning*

Status: M.A. in Mathematics, Postgraduate
Fields: Machine Learning, Computational mathematics, Data Science

Madison, WI, United States
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EDUCATION

Graduated as M.A. in Mathematics - University of Wisconsin–Madison MAY 2021

· Interest in Computational mathematics, Data Science, Machine Learning and Stochastic Analysis
· GPA: 3.88/4.0

Semester Abroad - University of Wisconsin–Madison SEP 2019 - MAY 2020

· Interest in Applied mathematics and Statistical Learning
· GPA: 3.375/4.0

Graduated as B.S. in Statistics (MAY 2020) - Nanjing University SEP 2016 - MAY 2019

· GPA.Cumulative: 3.95/5 · GPA.Major: 3.91/5

RESEARCH

NANJING UNIVERSITY FINANCIAL INNOVATION LAB - Nanjing, JS, China Sep 2018 – Dec 2018

· HEAD UNDERGRAD RESEARCH
· This was a research experience about Algorithm design in Blockchain topic.
· Designed a conjugated routing and account balancing algorithm for high-speed transaction as a team member, and articulated a paper.
· Implemented simulation and numerical optimization with MATLAB on Tianhe HPC, making success rate over 90%.
· A paper produced by this project (including me), "Photon State-Channel Architecture with AI Routing Optimization", has been accepted by the 2018 CCF Blockchain conference.

INTERDISCIPLINARY CONTEST IN MODELING - Nanjing, JS, China Feb 2018

· Designed a model to decide the number, distribution and timeline of Tesla destination charging and supercharging stations.
· Use the Queuing Model to figure out the relationship between the expected waiting time and arrival rate.
· A Linear Regression Model was used to predict the number of electric vehicles.
· A paper produced by this project was awarded the Honorable Mention in ICM.

EXPERIENCE

TRANSLATOR - University of Wisconsin–Madison NOV 2020

· Provide interpretation services for Nanjing University delegation.
· Participated and interpreted the biomedical cancer detection technology exchange meeting with Exact Sciences.
· Accompanied to visit Discovery Building, Research institute in Madison, Wisconsin.

COURSEWORK HIGHLIGHTS

Mathematics Real Analysis • Complex Analysis • Functional Analysis
Methods of Applied Mathematics I & II • Methods of Computational Mathematics I & II
Operations Research • Modern Algebra • Topics in Applied Math

Statistics Statistical Learning • Stochastic Processe • Mathematical Statistics
Multivariate Statistical Analysis • Time Series Analysis • Risk Statistics

Computer Science Pattern Recognition • Data Mining • Machine Learning

SKILLS

PROGRAMMING
Python • Matlab • C • C++ • LaTeX
R • Shell • Fortran(w/ mpi) • Octave
Familiar: Java • Assembly • MySQL

SPOKEN & WRITTEN
Fluent: English
Native: Chinese