ZIJIE ZHANG RESUME

Intention: Research, Machine Learning

Status: M.A. in Mathematics, Postgraduate

Fields: Machine Learning, Computational mathematics, Data Science

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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

- \cdot 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