

张子杰 | 简历

意向部门: 技术研究, 机器学习方向

Status: M.A. in Mathematics, Postgraduate

Fields: 机器学习, 计算数学, 数据科学

Madison, WI, United States

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EDUCATION

M.A. in 数学硕士 - 威斯康辛大学麦迪逊分校

9月 2019 - 5月 2021

- 主要学习方向计算数学, 数据科学, 机器学习和随机分析
- GPA: 3.88/4.0

出国交换 - 威斯康辛大学麦迪逊分校

9月 2019 - 5月 2020

- 主要学习方向应用数学与统计学习
- GPA: 3.375/4.0

统计学学士 - 南京大学

9月 2016 - 5月 2020

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

RESEARCH

南京大学金融创新实验室 - 南京, 江苏, 中国

9月 2018 - 12月 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 Processes • 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