

Menghao Zhou

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EDUCATION

B.S. – Industrial Engineering 7/2021

Department of Industrial Engineering, Xi'an Jiaotong University, Xi'an, China

- **GPA: 3.64; Average Score: 86.46**
- **Relevant Coursework:** Operations Research, Statistics Analysis, System Engineering, Information System, Database System and Application, Economics, Quality Management, Marketing, Production Planning and Control, Machine Learning
- **Thesis:** Application of Deep Boosting Decision Tree Algorithm in Fraud Detection
- ✧ **Thesis Advisor:** [Dr. Yao Wang](#)

RESEARCH AND PROJECT EXPERIENCE

National University Mathematical Modeling Competition Xi'an, China

Mathematical modeling, Programming, Writing 6/2018

- Analyzed the problem and finished programming and part of mathematical modeling and paper writing, and finally won the first prize of Shaanxi Competition Area.
- ✧ Advisor: [Dr. Feng Wang](#)

Survey of corporate institutional costs Xianyang, China

Survey, Writing 7/2018 – 8/2018

- Conducted field research on 81 manufacturing companies in Xianyang City, obtained first-hand research data through visit, interview and questionnaire with 2 PhD students and finished part the writing of the research report.
- ✧ Advisor: [Dr. Ju-E Guo](#)

Survey of implementation of the rural poverty alleviation medical security system Xi'an, China

Survey, Team leader 7/2019

- Led a team including 3 postgraduates and 8 undergraduates, conducted a 7-day survey in Zhenyuan County, Qingyang City, Gansu Province and published a research report on the implementation of the rural poverty alleviation medical security system.

Excellent course design for IE majors of the Ministry of Education Xi'an, China

Mathematical modeling, Programming, Writing 7/2020 – 8/2020

- Led a team, completed all mathematical modeling, programming and part of the paper writing (machine learning part) and finally won the 4th place with "Bearing Fault Diagnosis Based on Quality Big Data".
- ✧ Advisor: [Dr. Jian Li](#), [Dr. Kai Wang](#)

The 15th "Dongfeng Nissan Cup" Tsinghua IE Liangjian National Industrial Engineering Application Case Competition Beijing, China

Mathematical modeling, Programming, Writing 9/2020

- Designed a case based on "Bearing Fault Diagnosis Based on Quality Big Data" and finally won the second prize.
- ✧ Advisor: [Dr. Jian Li](#), [Dr. Kai Wang](#)

Deep Boosting Decision Tree Algorithm Xi'an, China

Programming 3/2021 -

- Collaborated with advisor to propose a new machine learning algorithm-Deep Boosting Decision Tree Algorithm, completed code programming and implementation of algorithms. Related papers will be published in the near future.
- ✧ **Advisor:** [Dr. Yao Wang](#)

Language & SKILLS & INTERESTS

- **Language:** Fluent in English, CET4(579, 2017),
- **Technical Skills:** Python, Matlab, R, MySQL, C++, AnyLogic, Latex, Gurobi
- **Interests:** Interpretable Machine Learning; Reinforcement Learning; Optimization; Industrial Big Data