

XIAOLI LI

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EDUCATION

University of Science and Technology of China

09/2020 - 06/2024 (*Expected*)

Bachelor of Science at School of Mathematics, Major: Probability and Statistics

GPA: 4.03/4.3 or 92.7/100, Rank: 3/83 in Probability and Statistics Department.

Selected Courses:

- Mathematical Statistics (96) • Probability (92)
- Real Analysis (93) • Advanced Probability (Ongoing, Graduate)

EXPERIENCES

Variable Selection and Subgrouping in Sparse Beta Model

Department of Statistics, USTC. Instructor: **Dr. Canhong Wen**

10/2022 – *Present*

- Read tutorial and advanced publications regarding beta model and subgrouping.
- Familiarized fused Lasso and ADMM algorithm.
- Learned how BIC and GIC managed to tune parameters.

Study on the trend of temperature change in China based on multi-source data

School of Earth and Space Sciences, USTC. Instructor: **Dr. Lei Zhong**

10/2020 – 6/2021

- Collected and analyzed Chinese temperature data during last 50 years from various sources by Matlab and Python.
- Obtained the relationship between temperature and main pollutant discharge amount through statistical method.
- Predicted the future trend of temperature change under different scenarios of carbon emission via Python.

Research Seminars about High-dimensional Statistics

9/2022 – 12/2022

Department of Statistics, USTC. Supervisor: **Dr. Canhong Wen**

Textbook: High-dimensional statistics: A non-asymptotic viewpoint, by M. Wainwright.

- Covered several popular topics in modern statistical theories and machine learning, including concentration inequalities, random matrices, graphic models and minimax lower bounds in high dimensional.
- Learned basic techniques related and also their motivations, examples in order to help ourselves dedicate to literatures on statistics.

SKILLS

Programming

C, R, Python

Tools

Latex, Excel, Origin, SPSS

English

TOEFL 105

AWARDS

- USTC Outstanding Students Award *Gold – 2021, 2022*
- Jianghuaiweilai Award (For 2% top students) *2021*
- Successful Participant in Mathematical Contest In Modeling and Interdisciplinary Contest In Modeling(MCM/ICM) *2022*

EXTRACURRICULAR

- Teaching Assistant in **Mathematical Analysis**

2022