

# XIAOLI LI

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## EDUCATION

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**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

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**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

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**Programming**

C, R, Python

**Tools**

Latex, Excel, Origin, SPSS

**English**

TOEFL 105

## AWARDS

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- 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

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- Teaching Assistant in **Mathematical Analysis**

*2022*