

# Xiang Ye

Building 1, King Abdullah University of Science and Technology, Thuwal, Makkah Province, Saudi Arabia

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## Personal Profile

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I'm a PhD candidate at King Abdullah University of Science and Technology (KAUST), expecting to finish my PhD in Statistics around the end of 2026. I am enthusiastic about Bayesian computational statistics, specifically the design of principled priors for scalable probabilistic models and the synergy between Bayesian methodology and modern high-dimensional learning algorithms. My interests extend to uncertainty quantification and directional statistics. I am currently seeking postdoctoral fellowships or research scientist positions to begin in late 2026 or early 2027.

## Education

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### King Abdullah University of Science and Technology

#### PhD in Statistics

- Research Group: Bayesian Computational Statistics
- **Courses:** Probability and Statistics, Linear Models, Stochastic Processes, Spatial Data Science with R, Numerical Optimization, Functional Data Analysis, Stochastic Partial Differential Equations

Jeddah, Saudi Arabia

August 2023 - Before December 2026

### Lancaster University

#### MSc in Statistics

- Graduate with distinction
- **Courses:** Statistical Inference, Bayesian Statistics, Statistical Learning, Survival Analysis, Methods for Missing Data, Computationally Intensive Methods (Markov Chain Monte Carlo, Particle Filter), Time-Series, Multivariate Time-Series, Programming in R, Programming in Python
- **Dissertation:** Spatial Statistical Modeling with INLA (This dissertation is graded as "Distinction")

Lancaster, UK

October 2021 - September 2022

### University of Liverpool & Xi'an Jiaotong-Liverpool University (XJTLU)

Suzhou, China

#### BSc in Applied Mathematics

- Graduated with Upper Second Class
- **Courses:** Calculus, Multivariate Calculus, Linear Algebra, Advanced Linear Algebra, Abstract Algebra, Vector Field Theory, Analysis, Probability and Statistics, Statistical Distribution Theory, Ordinary Differential Equations, Partial Differential Equations, Complex Functions, Dynamic Modeling, Numerical Analysis, Operational Research, Metric Spaces, Population Dynamics, Stochastic Process, Differential Geometry, Optimisation Theory, Quantum Mechanics, Functional Analysis, Programming in JAVA
- **Final Year Project:** How to find the best starting lineup for a basketball team? – An application for integer programming to the management of an NBA team. (This thesis is graded as "Distinction")

September 2017 - June 2021

## Publications & Preprints

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[1] X. Ye, J. Van Niekerk, and H. Rue. Principled priors for Bayesian inference of circular models. *arXiv preprint arXiv:2502.18223*, 2025.

[2] X. Ye, J. Van Niekerk, and H. Rue. A Bayesian regression framework for circular models with INLA. *arXiv preprint arXiv:2502.18223*, 2026.

## Works in Progress

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[1] X. Ye. Fast Bayesian inference for flexible regression models involving circular data with INLAcc. *Manuscript in preparation*, 2026.

## Honors and Awards

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### Department Prize for Best Computational Dissertation

Lancaster University

Lancaster, UK

October 2022

- Dissertation: Spatial Statistical Modeling with INLA

### Meritorious Winner of Mathematical Contest In Modeling (MCM)

Consortium for Mathematics and its Applications

USA

March 2020

- Meritorious Winner as well as Student Advisor
- Analyze the selling data and customers' review of the products of a company, find patterns and make predictions to give suggestions to help the company to put their product into the Amazon online market.

### Excellent Team Member of ENACTUS

ENACTUS (Students in Free Enterprise)

Suzhou, China

September 2017 - June 2019

- Helping to protect and maintain the traditional legacy of nut-cutting handicraft through business operating mode.

# Intern and Research Experience

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## Research and Development Intern

Tech View Info Limited Liability Company

- Duties include:
- Combine and analyze the data from many resources, do data engineering to process the data to meet the need of the company.
- Construct and optimize statistical models and machine learning models to do predictions with respect to the data to meet the need of the clients
- Design new algorithms, methodology and systems for constructing machine learning models with respect to the different needs for the company, and write patent applications

Guangzhou, China

February 2023 - May 2023

## Statistical Assistant

National Social Science Foundation of China

Guangzhou, China

- Statistical assistant in a nationwide investigation of Teacher Talk project supported by the National Social Science Foundation of China (Grant NO. 16BYY090), providing assistance in data sorting and statistical analysis.

March 2020 - August 2020

## Research assistant

Professor Ronghua Li of Beijing Institute of Technology

Guangzhou, China

- Research assistant in the program of PageRank algorithm with Professor Ronghua Li

August 2019 - August 2020

## Project Marketing Intern

Guangdong Zhujiang Investment CO LTD

Guangzhou, China

- Duties include statistical analysis of data collected by the department using EXCEL and other software to process data and construct charts or graphs, and writing reports

July 2019 - August 2019

# Skills

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**Programming** R (INLA, STAN, ggplot2, caret, keras), Python, C++, MATLAB

**Tools & Software** L<sup>A</sup>T<sub>E</sub>X, Microsoft Office, Adobe Photoshop, Adobe Premier Pro

**Soft Skills** Teamwork, Problem-solving, Presentation

# Interests

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**Sports** I love sports and good at many ball games. I love football and basketball and I am good at table tennis.

**Arts** I love drawing. I have won the first class prize at a National Drawing Contest for Primary and Middle School Students of China in 2011.

**Music** I enjoy music. I enjoy singing and I have learnt violin, piano and saxophone.

**Reading** I love reading very much. Two of my favorite books are *The Count of Monte Cristo* and *One Hundred Years of Solitude*.

**Video Games** I am good at e-sports, especially MOBA (Multiplayer Online Battle Arena) and FPS (First Person Shooter) games such as CSGO.

**Cooking** I love cooking. I am good at many Chinese dishes and enjoy trying new dishes.

# Languages

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**English** Professional proficiency, IELTS 7 (2021)

**Chinese** Native proficiency

**German** A2

References available upon request.