Shijia Chen

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EDUCATION

School of Mathematics and Statistics, Xidian University

Xi'an, China

BSc in Mathematics and Applied Mathematics (Elite Class, Joint training of mathematical information and computer science)

2022 - 2026 (expected)

- GPA: 3.9 / 4.0 Rank: 2 / 30
- Direction: Cryptography / Artificial Intelligence / Statistics

Hangzhou No.2 High School of Zhejiang Province

Hangzhou, China 2019 - 2022

Major Courses

Foundation Courses: C Programming, University Physics, Mathematical Analysis, Advanced Algebra, Modern Algebra, Complex Variable Function, Real Variable Function, Operational Research and Optimization Methods, Probability Theory.

Core Courses: Topology, Functional Analysis, Partial Differential Equation, Numerical Analysis, Modern Cybernetics, Differential Geometry, Stochastic Process, Digital Signal Processing, Data Structure, Computer Network Basis, Mathematical Modelling.

Direction Courses: Modern Cryptography, Information Theory, Computational Intelligence, Machine Learning, Intelligent Control, Mathematical Statistics, R Programming, etc.

Electives: Graph Theory and Network Science, Wavelet Analysis, Operator Algebra, Biomathematics, Neuroscience imaging, Microeconomics, French, etc.

Academic Visiting Experience

2024 International Science Summer School (Math Track), Westlake University | Hangzhou, China July 8th - 26th, 2024

- Learn about basic knowledge of algebraic topology and algebraic geometry.
- A glimpse of how number theory introduces and serves for other fields of mathematics, like the solution of a few typical Diophantine equation.
- A brief introduction to dynamical systems and ergodic theory.
- Investigate the Navier-Stokes equations and to expericence how mathematical research is conducted on PDEs.
- Other primary learning on stochastic simulation, geometric measure theory, multi-scale modeling, etc.

The 6th IEEE EMBA International Summer School of Neural Engineering, Shanghai Jiao Tong University | Shanghai, China July 29th - Aug 3rd, 2024

- Learn about advanced brain imaging technology and experience MRI by firsthand.
- Practice: Use HL-HGAT model to perform sex classification on the ABCD dataset.
- Make reports on fundamental neurodynamics.

2024 ASSA International Summer School on Methodology of Computational Social Science, Huazhong Agricultural University | Wuhan, China Aug 19th - Aug 23rd, 2024

- Understand how ABM is applied in computational social science and its protocol.
- Develop a visualized multi-agent reinforcement learning program based on Netlogo.

SKILLS AND Certificates **Languages:** Chinese, English, French. (Certificates for National College English Test Band-6 (Excellent) and National College French Test Band-4)

Programming: MATLAB, Python, R, C++, SQL, Lean. (Second-level Certificate for National Computer (Excellent))

PROIECTS

Research on Distributed Algorithms for UAV Swarms

National-level College Students Innovation and Entrepreneurship Training Program Advisor: Zhaohui Zhang 2023.12 - 2024.12 (expected)

- Project oganization.
- In charge of algorithm design and programming: distributed adjacency information table for formation control and artificial potential field for obstacle avoidance.
- Use MATLAB APP to build a test platform.

Linear B-cell Epitope Prediction Based on Deep Neural Networks

Advisor: Shengli Zhang 2023.11 - 2024.10 (expected)

 In charge of the design of our Epitope identification neural network based on BiLTSM.

Digital Intelligence Logistics: City To-home Logistics Pioneer

Silver Award of Xidian University in China International College Student Innovation Competition

Advisor: Weifeng Gao 2024.08

• In charge of shortest path search algorithm programming based on A* algorithm.

Awards and Honors

- National Bronze Prize, 2023 "FLTRP · ETIC Cup" National English Reading Contest 2023.12
- First-class Award, Comprehensive Development Scholarship / Title of "Excellent Student" of 2022 2023 Academic Year, Xidian University 2023.11
- Second Prize, 2023 (The Ninth) National College Students Statistical Modeling Contest (Shaanxi Region) 2024.07
- Outstanding Prize, The Qualifying Contest for China Undergraduate Mathematical Contest in Modelling of Xidian University
 2024.06
- Record-breaking, Women's 400m, The 44th Track and Field Meet of Xidian University 2024.04
- Gold, Women's 4x400m (U18), 2023 Shaanxi Open Track and Field Championships 2023.06

Social Work and Practical Experience

•	President, The Psychology Association of Hangzhou No.2 High School	2020 - 2021
•	Member, The Science and Technology Association of Xidian University	2022 - 2023
•	Member, Student Union of School of Mathematics and Statistics	2022 - 2023
•	Minister of Secretary Department, Mathematical Modelling Association oversity	of Xidian Uni- 2023 - 2024
•	Representative of Psychology in administrative class	2022 - 2024
•	Finance, Mathematics Association of Xidian University	2024 - 2025
•	Member, Track and Field Team of Xidian University	2023 - 2024

Industry Pioneers: Mathematics Guides the Future | Shanghai & Hangzhou 2023.07

- Conduct interviews with alumni, learn about Work experience and academic planning.
- Visit well-known Internet, financial and astronautic enterprises like Bilibili, Huafu Fund, etc.

Charming Hangzhou: Entrepreneurial Youth and Digital Future | Hangzhou 2024.07

- Learn about the establishment of small, medium and micro enterprises in Hangzhou Talent Park.
- Visit Hikvision Corporation to learn about the frontier of Internet of Things.
- Understand the standardization management of live streaming e-commerce industry.