

Xiaoqun Li

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EDUCATION

- **PhD Student in Chemical Engineering** 2026 – Present
Oklahoma State University, Stillwater, OK, USA
Advisor: Dr. Zheyu Jiang
- **MSc., Statistical Data Analysis** 2026
Australian National University, Canberra, Australia
- **BSc., Applied Mathematics** 2024
Yangtze University, Hubei, China
GPA: 91.4/100

JOURNAL ARTICLES

1. **Li X**, Zhang L, Tan C, Wu Y, Zhang Z, Ding J, Li Y. The impact of temperature, humidity and closing school on the mumps epidemic: a case study in the mainland of China. *BMC Public Health* (JCR Q1), 2024, 24(1): 1632.
2. Li Y, Zhu R, **Li X**, Yang X, Zhang L, Yuan R. Note on a class of time-delay virus models with virus-to-cell infection, cell-to-cell transmission, CTL and antibody immune responses. *AIMS Mathematics* (JCR Q1), 2025, 10(11): 26446–26458. (Co-corresponding authors)
3. Zhang L, **Li X**, Tan C, Azimaqin N, Zhang J, Li Y. Stability analysis of a novel HIV model with CTL immune response, latency age, infection age and a saturated infection rate. *Mathematical Biosciences*, 2026, 109676. (Co-first authors)
4. Ding C, Dai Z, **Li X**, Tan C, Azimaqin N, Yuan R, Li Y. Stability analysis of age-structured viral infection dynamics with cell-to-cell transmission and humoral immunity. *Advances in Continuous and Discrete Models*, 2026.
5. Li Y, Zhu R, Yang Y, **Li X**, Wang J. A unified framework for viral infection models with time-dependent delays, immune interactions, and general incidence rates. *Journal of Mathematical Analysis and Applications*, 2026, 130604.

RESEARCH EXPERIENCE

Remote Research Intern, University of Illinois Urbana-Champaign Sep 2024 – Dec 2024

- Focused on theoretical foundations of statistics, particularly linear mixed models.
- Reviewed and reproduced the paper “Heteroscedastic Personalized Regression Unveils the Genetic Basis of Alzheimer’s Disease Stratified by Cognitive Level”.

Lead Chief Investigator, Yangtze University

Sep 2021 – May 2023

- Led a National College Student Innovation and Entrepreneurship Program titled *Mathematical Modelling and Dynamics of Mumps*.

- Investigated the impact of temperature, humidity, and school schedules on mumps transmission across 31 regions in mainland China, and provided feasible recommendations for disease control.

COMPETITION EXPERIENCE

- **National Third Prize**, The 11th ‘Teddy Cup’ Data Mining Challenge Jun 2023
- **Provincial Third Prize**, The 31st National University Student Mathematical Modeling Competition Sep 2022
- **Provincial First Prize**, The 12th ‘CP Cup’ National University Student Research and Analysis Competition Apr 2022
- **Provincial Third Prize**, National University Student Mathematics Competition Nov 2022

HONORS AND AWARDS

- Erasmus Mundus Joint Master Scholarship (InterMaths) 2026
- Outstanding Graduate 2020–2024
- Outstanding Thesis Award Jun 2024
- Distinguished Outstanding Student 2020–2021
- First-Class Scholarship (School Level) 2020–2021
- First-Class Scholarship (School Level) 2021–2022

SKILLS

- **Programming and data analytics:** MATLAB, R, Python, SPSS
- **MS Office:** Word, Excel, PowerPoint
- **Languages:** Mandarin (Native); English (Proficient)