Yingmo Zhang

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EDUCATION

University of Wisconsin-Madison — Madison, Wisconsin
B.S, Mathematics — *Sept. 2022 – May. 2026*

Relevant coursework: Calculus I&II; Multivariable Calculus; Linear Algebra; Applied Differential Equation; The Theory of Single Variable Calculus (Proof); Probability Theory; Applied Nonlinear Dynamical System, Chaos and Modeling; Differential Geometry; Elementary Topology; Python Programming

University of Minnesota-Twin Cities — Minneapolis, Minnesota
B.S, Mathematics; Transferred Out — *Sept. 2022 – May. 2023*

EXPERIENCE

Direct Reading Program — Madison, Wisconsin
Program student — *Feb 2024 – Present*

- The DRP topic is **Dynamical System and Reaction Networks**. Mastered mathematical modeling for analyzing network dynamics, learning to predict behaviors stability, limit cycles, and chaos, enhancing my understanding of complex systems.

The Mathematics Contest in Modeling
Group Leader — *Feb 2024*

- We used Agent-based Models(ABMs), Modified Rössler System, The modified Lotka–Volterra model, Chaos Theory, Stochastic Process Equation, Wiener Process, Brownian Motion, Euler–Maruyama method, Milstein Method to finalize an essay about predicting and analyzing between the sex ratio of sea lampreys and local food resources.

AWARDS & ACHIEVEMENTS

Dean's List: Awarded to Bachelor alumni who have term GPA greater than or equal to 3.68 by College of Science and Engineering at **University of Minnesota-Twin Cities**. (Dec 2022, May 2023)

SKILLS

Languages: Python, LaTeX, Mathematica, Microsoft Office