

Zhenyi Zhang

St. Louis, MO | (314)-203-6060 | zhang.zhenyi@wustl.edu

Experienced Ph.D. candidate with 2+ years in machine learning using Python and Octave programming.

EDUCATION

Ph.D. in Mathematics, Washington University in St. Louis, St. Louis, MO | Expected May 2026

- Reading project on billiard system (differential geometry and dynamical system) | **GPA:** 4/4
- Awarded by fellowship \$35,000 per year.

M.A. in Mathematics, University of Wisconsin-Madison, Madison, WI | Aug 2021

- 3 + 2 VISP joint program with Shanghai Jiao Tong University | **GPA:** 3.91/4
- Summer reading in topics in Fourier analysis.

B.S. in Mathematics and Applied Mathematics, Shanghai Jiao Tong University, Shanghai, China | Aug 2020

- Fellowship for honor students awarded | **GPA:** 3.78/4
- Undergraduate thesis in knot theory, focusing on branched coverings of 3-manifolds, knots and links.

RESEARCH INTERESTS

Dynamical Systems, Differential Geometry, Mathematical Physics, Stochastic Process

EXPERIENCE

Teaching Assistant | Department of Mathematics, Washington University in St. Louis

St. Louis, MO | Fall 2022 - Present

- Lead discussion sections in Calc 2 (Fall 2022) and Calc 3 (Fall 2023).
- Grader of Math 350 (dynamical systems and chaos) and Math 450 (mathematics for multimedia) (Spring 2023).
- Hold weekly office hours (2 hours/week) at the Math Help Room.

INMAS | Department of Mathematics, University of Illinois Urbana-Champaign

Champaign, IL | Oct 2022 – Feb 2023

- Workshops focusing on Python programming, using all kinds of important tools including NumPy, pandas, SciPy, matplotlib, seaborn, scikit-learn etc. to do linear regression and data visualization.
- Group work on implementing the tools of Python to analyze the correlation and difference between red wine and white wine.

Conferences

- Department of Mathematics, Northwestern University, Chicago, IL | Oct 20 – 22, 2022
The 43rd Midwest Probability Colloquium
- Simons Center for Geometry and Physics, Stony Brook University, Stony Brook, NY | Nov 13 – 17, 2023
Workshops on Mathematical Billiards: At the Crossroads of Dynamics, Geometry, Analysis and Mathematical Physics

SKILLS

Lingual: Natural (Chinese, English, Japanese);

Programming (Python, Octave, MATLAB, LaTeX)