

# Zhi-Feng Wei

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## CONTACT INFORMATION

Department of Mathematics  
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## RESEARCH INTERESTS

Probability, and Graph Theory.

## EDUCATION

### Department of Mathematics, Indiana University (IU)

Ph.D. in Mathematics (expected May 2024)

- Advisor: Prof. Russell Lyons
- Minor in Statistics

### School of Mathematical Sciences, Beijing Normal University (BNU)

M.S. in Mathematics, June 2018

- Advisor: Prof. Mu-Fa Chen
- Graduation with Honor: Excellence Award from Beijing Municipality & BNU

### Beijing International Center for Mathematical Research, Peking University

Visiting Student, 7<sup>th</sup> Enhanced Program for Graduate Study, Spring 2015

Courses: Functional Analysis, Riemannian Geometry

### Cuiying Honors College, Lanzhou University (LZU)

B.S. in Mathematics, June 2015

- Advisor: Prof. Heping Zhang

## PUBLICATIONS & PREPRINTS

- (1) *Sharp Bounds on Eigenvalues via Spectral Embedding Based on Signless Laplacians*, arXiv: 2111.08777.
- (2) *Inverse Problems for Ergodicity of Markov Chains*, J. Math. Anal. Appl., **505**(2)(2022), Article 125483.
- (3) *Number of Matchings of Low Order in (4,6)-Fullerene Graphs*, (with H. Zhang) MATCH Commun. Math. Comput. Chem., **77**(3)(2017), 707–724.

## INVITED PRESENTATIONS

- (1) *Bound Return Probabilities via Spectral Embedding Method*, 20<sup>th</sup> Northeast Probability Seminar, CUNY (Zoom talk), Nov 2021.

## AWARDS & FUNDING

2022	Research Assistant Supported by NSF grant DMS-1954086
2021	Research Assistant Supported by NSF grant DMS-1954086
2019	James Williams Memorial Award, Department of Mathematics, IU
2018	College of Arts and Sciences Graduate Fellowship, IU
2016	National Merit Scholarship of China
2016	Excellent Teaching Assistant Award, BNU
2014	Cuiying Student Innovation Fund, LZU
2012–14	Outstanding Student Scholarship, LZU
2012	Scholarship for Outstanding Mathematics Majors, School of Mathematics & Statistics, LZU

TEACHING EXPERIENCE	Fall	2021	Recitation, Math-M211: Calculus I
	Summer	2021	Preparation Session for Math Qualifying Exam in Analysis
	Spring	2021	Co-Teaching, Math-M106: Mathematics of Decision and Beauty
	Fall	2020	Grading, Math-M463: Intro to Probability Theory I
	Spring	2020	Grading, Math-M464: Intro to Probability Theory II
	Fall	2019	Grading, Math-M463: Intro to Probability Theory I
	Summer	2019	Co-Teaching, Math-M106: Mathematics of Decision and Beauty
	Fall	2018	Grading, Math-M365: Intro to Probability and Statistics
	Fall	2016	Teaching Assistant, Linear Algebra

LANGUAGES	Chinese: <b>Native</b>
	English: <b>Fluent</b>
	French: <b>Elementary</b>

PROFESSIONAL AFFILIATION	American Mathematical Society
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REFERENCES	<b>Russell Lyons</b> , James H. Rudy Professor of Mathematics, Indiana University, (812)855-1645, <a href="mailto:rdlyons@indiana.edu">rdlyons@indiana.edu</a>
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