Jie Zeng

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Education

2015 – 2023 **The University of Oklahoma**, Norman, OK, United States
Ph.D. candidate in Mathematics Advisor: *Dr. Christian Remling*
Research Field: Spectral Theory
Thesis: Spectral Theory of Dirac Operators with Measures

2013 – 2015 **Stevens Institute of Technology**, Hoboken, NJ, United States
Master of Science in Mathematics

2009 – 2013 **Beijing Normal University**,Beijing, China
Bachelor of Science in Mathematics and Applied mathematics
Thesis: Some properties of Riemann Zeta Function
Thesis Advisor: Dr. Guantie Deng

Experience

2023 – Now **The University of Texas at Tyler**, *Visiting Assistant Professor*, TX, United States.
2024 **Spring**, *Calculus II section 02, Calculus II section 03, Math for business*.
2023 **Fall**, *Calculus II section 01, Calculus II section 02, Math for Liberal arts I*.

2015 – 2023 **The University of Oklahoma**, *Teaching Assistant*, OK, United States.

The instructor of record, *Differential and Integral Calculus I, Differential and Integral Calculus II (fast track)*, College Algebra, Functions and Modeling for Business, Life, and Social Sciences.

Grader, *Introduction to Ordinary Differential Equations, Linear Algebra*, Partial Differential Equations.

Tutor in Math Center, *Differential and Integral Calculus, Multi-variable Calculus, Introduction to Ordinary Differential Equations, Physical Mathematics*.

Conferences

2024 Brazos Analysis Seminar, Texas Christian University

2023 Brazos Analysis Seminar, Baylor

2023 Spectral Theory and Applications, Texas A&M

2023 SIAM CSS Computational and Applied Mathematics Forum, OU

2023 AMS 2023 Spring Southeastern Sectional Meeting, Georgia Tech
talk: de Branges spaces of a Dirac operator with a measure

2022 1st workshop on Quantum Science and Technology, OU

2018 Texas Analysis and Mathematical Physics Symposium 2018, Baylor

2018 Arizona School of Analysis, UA

Publications

1 Jie Zeng, Spectral Theory of Dirac Operators with Measures, dissertation thesis, 2023

2 Himanshu Singh, Jie Zeng and Drishty Singh, On the interface of Band-limited Continuous Functions and Idea Operator, submitted, 2024

3 Marchenko Representation of Canonical Systems, in preparation

Funding/Scholarship

AMS Graduate Student Travel Grants

Skills

Proficient in Microsoft Office, LaTeX.
Intermediately proficient in MATLAB and Mathematica.

Language Chinese (native)
English (Highest certification granted by The University of Oklahoma)