
Lewei Zhao's CV

DOB: 05/20/1992

Gender: Male

Place of Birth: Xianyang, China

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1. Education:

2010/09-2014/06 B.S., Hongyi Mathematics Honors Class, Wuhan University, China.

2014/09-now PhD, Applied Mathematics, Wayne State University, USA. (**Expected to graduate in Summer 2019**)

2. PhD Advisor: Prof. Zhimin Zhang

3. Dissertation Topic: Spectral Methods for Hamiltonian Systems

4. Publication in Progress:

1) *Investigation of instability in Ultrasonic Welding Under the Parametric Excitation*, Yongqiang He, Lewei Zhao, prepare to submit on *Journal of Solids and Structures*.

2) *An Efficient Spectral-Galerkin Method for Quantum Optomechanical Hamiltonian System*, Jing An, Lewei Zhao, Wenzhao Zhang, Zhimin Zhang, in preparation.

3) *Geometrical Structure of Schrodinger Eigenfunctions Under Inverse Square Potential for Circular Domain*, Lewei Zhao, Runchang Lin, Zhimin Zhang, in preparation.

5. Talk:

1) 2017/07/19 "Geometrical Structure of Schrodinger Eigenfunctions Under Inverse Square Potential for Circular Domain", Great Lakes Mathematical Physics Meeting, Michigan State University. (\$ 500 Travel Support Provided by Conference)

2) 2017/04/29, "Investigation of instability in Ultrasonic Welding Under the Parametric Excitation", SIAM Great Lakes Section Spring Meeting, Oakland University.

3) 2016/07/19, "A Spectral Collocation Method for Hamiltonian System", The 4th Summer Activities on Numerical Methods for PDEs, Peking University, China.

6. Invited Review:

- 1) 2016/10-2016/11 *Journal of Mathematics Analysis and Applications*.
- 2) 2016/04-2016/05 *International Journal of Numerical Methods and Applications*.

7. Honors and Awards:

2013/07 The 4th S.T.Yau College Mathematics Contest Honorable Mention in Applied and Computational Math Subject, China. (Top 20)

2016/04 Paul Caltin Endowed Mathematics Scholarship, Wayne State University.

8. Academic Visit:

- 1) Summer of 2014-2016, Applied and Computational Mathematics Division, Beijing Computational Science Research Center, China.
- 2) 2013/07/15-08/15, Summer Research Program, Department of Mathematics, Hong Kong University of Science and Technology.

9. Conferences Attended:

- 1) 2017/08/06-08/11, The 7th International Congress of Chinese Mathematicians, Beijing, China.
- 2) 2015/07/04, Seminar of Computational and Applied Mathematics, Tsinghua University, China.

10. Teaching Experience:

- 1) Fall 2017 and Fall 2015, MAT 1800 Elementary Functions.
- 2) Summer 2017, MAT 2020 Calculus II.
- 3) Winter 2017 and Winter 2016, STA 1020 Elementary Statistics.
- 4) Winter 2018 and Fall 2016, MAT 1050 Intermediate Algebra with Trigonometry.