

# Guanjie Wang (Updated August 5, 2024)

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CONTACT INFORMATION School of Statistics and Mathematics  
Shanghai Lixin University of Accounting and Finance  
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Pudong Area, Shanghai, 201209, China Homepage: <https://www.mathguanjie.cn>

RESEARCH INTERESTS Numerical Solution of PDEs, Uncertainty Quantification.

CURRENT POSITION **Associate Professor** 2023/12~Present  
Shanghai Lixin University of Accounting and Finance, Shanghai

POSITION OCCUPIED **Lecture** 2020/03~2023/12  
Shanghai Lixin University of Accounting and Finance, Shanghai

**Research Assistant Professor** 2018/04~2020/02  
ShanghaiTech University, Shanghai

**Postdoctoral Fellow** 2015/07~2018/03  
Chinese Academy of Sciences, Shanghai

EDUCATION **Ph.D.** in Computational Mathematics 2010/09~2015/06  
Zhejiang University, Hangzhou, Zhejiang, China

**B.S.** in Mathematics and Applied Mathematics 2006/09~2010/07  
Qufu Normal University, Qufu, Shandong, China

PUBLICATIONS # Co-first Author, \* Corresponding Author.

- [1] X. Shi, H. Zhang and **G. Wang**\*. “ANOVA-GP modeling for high-dimensional Bayesian inverse problems”, *Mathematics*, 12(2), 301, 2024.
- [2] **G. Wang**, S. Sahu and Q. Liao. “An adaptive ANOVA stochastic Galerkin method for partial differential equations with high-dimensional random inputs”, *Journal of Scientific Computing*, **98** (1), 24, 2024.
- [3] **G. Wang** and Q. Liao. “Reduced basis Galerkin method for partial differential equations with random inputs”, *Applied Mathematics and Computation*, **463**, 128375, 2024.
- [4] M. Li, Y. Feng and **G. Wang**\*. “Estimating failure probability with neural operator hybrid approach”, *Mathematics*, **11**(12), 2762, 2023.
- [5] **G. Wang**, F. Xue and Q. Liao. “Localized stochastic Galerkin methods for Helmholtz problems close to resonance”, *International Journal for Uncertainty Quantification*, **11**(5), 77-99, 2021.
- [6] Q. Huang, K. Li, **G. Wang** and X. Du. “Stochastic finite element methods with the Euclidean degree for partial differential equations with random inputs”, *2020 Chinese Control And Decision Conference (CCDC), Hefei, China*, 634-640, 2020.
- [7] **G. Wang** and Q. Liao. “An adaptive hybrid spectral method for stochastic Helmholtz problems”, *Numerical Mathematics: Theory, Methods and Applications*, **13**(4), 1007-1026, 2020.
- [8] **G. Wang** and Q. Liao. “Efficient spectral stochastic finite element methods for Helmholtz equations with random inputs”, *East Asian Journal on Applied Mathematics*, **9**(3), 601-621, 2019.

- [9] J. Zhu and **G. Wang**. “Fast computation of wave propagation in the open acoustical waveguide with a curved interface”, *Wave motion*, **57**, 171-181, 2015.
- [10] J. Zhu and **G. Wang**. “New computational treatment of optical wave propagation in lossy waveguides”, *Frontiers of Information Technology & Electronic Engineering*, **16**(8), 646-653, 2015.
- [11] J. Zhu and **G. Wang**. “High-precision computation of optical propagation in inhomogeneous waveguides”, *Journal of the Optical Society of America A*, **32**(9), 1653-1660, 2015.

TEACHING  
EXPERIENCE

1. At the School of Statistics and Mathematics, Shanghai Lixin University of Accounting and Finance, since 2020. Courses taught:
  - (1) Linear Algebra (EM), spring 2022-2023, 2023-2024;
  - (2) Advanced Mathematics (B)-calculus I, fall 2020-2021, 2021-2022, 2022-2023, 2023-2024, 2024-2025;
  - (3) Advanced Mathematics (B)-calculus II, spring 2020-2021, 2021-2022, 2022-2023, 2023-2024;
  - (4) Probability and Mathematical Statistics (EM), fall 2021-2022, 2022-2023; spring 2019-2020, 2020-2021.
2. At the School of Information Science and Technology, ShanghaiTech University, teaching assist for:
  - (1) Numerical methods for partial differential equations (postgraduate), fall 2018-2019;
  - (2) Linear Algebra (undergraduate), fall 2015-2016.
3. At the International College, Zhejiang University, teaching assistant for:
  - (1) Introduction to Calculus I (oversea students), fall 2012-2013, 2013-2014;
  - (2) Introduction to Linear Algebra (oversea students), spring 2012-2013, 2013-2014.
4. At the Department of Mathematics, Zhejiang University, teaching assistant for:
  - (1) Linear Algebra, Advanced Algebra, 2013/03-2014/01.

ACADEMIC  
CONFERENCES

I have attended the following conferences and workshops:

1. “An adaptive ANOVA stochastic Galerkin method for partial differential equations with random inputs”, *CSIAM-UQ 2023*, 20–21, May, 2023, Yantai, China.
2. “Reduced basis Galerkin method for partial differential equations with random inputs”, *CSIAM 2019*, 19–22, September, 2019, Foshan, China, (contributed talk).
3. *Mathematics Science Forum Based on Material Movement Cognition*, 18–20 May 2019. East China Normal University, Shanghai, China.
4. *CSIAM 2017*, 13–15, October, 2017, Qingdao, China.
5. *International Summer School on Scientific Computing*, 24 July–5 August, 2017, Beijing, China.
6. *10th Annual Conference; Computational mathematics; China Society for Computational Mathematics*, 19–21 September, 2015, Guangzhou, China.

COMPUTER  
SKILLS

Linux, Matlab, L<sup>A</sup>T<sub>E</sub>X , html, etc.