

Guanjie Wang (Updated April 3, 2025)

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RESEARCH INTERESTS	Numerical Solution of PDEs, Uncertainty Quantification.	
CURRENT POSITION	Associate Professor Shanghai Lixin University of Accounting and Finance, Shanghai	2023/12~Present
POSITION OCCUPIED	Lecture Shanghai Lixin University of Accounting and Finance, Shanghai	2020/03~2023/12
	Research Assistant Professor ShanghaiTech University, Shanghai	2018/04~2020/02
	Postdoctoral Fellow Chinese Academy of Sciences, Shanghai	2015/07~2018/03
EDUCATION	Ph.D. in Computational Mathematics Zhejiang University, Hangzhou, Zhejiang, China	2010/09~2015/06
	B.S. in Mathematics and Applied Mathematics Qufu Normal University, Qufu, Shandong, China	2006/09~2010/07
PUBLICATIONS	# Co-first Author, * Corresponding Author.	
	<ul style="list-style-type: none">[1] G. Wang and Q. Liao. “An alternating low-rank projection approach for partial differential equations with random inputs”, preprint, 2024.[2] M. Li , G. Wang[#] , X. Zhang, Q. Liao and Chenxi Xiao, “D-LUT: Photorealistic Style Transfer via Diffusion Process”, IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2025.[3] X. Shi, H. Zhang and G. Wang[*]. “ANOVA-GP modeling for high-dimensional Bayesian inverse problems”, <i>Mathematics</i>, 12(2), 301, 2024.[4] G. Wang, S. Sahu and Q. Liao. “An adaptive ANOVA stochastic Galerkin method for partial differential equations with high-dimensional random inputs”, <i>Journal of Scientific Computing</i>, 98 (1), 24, 2024.[5] G. Wang and Q. Liao. “Reduced basis Galerkin method for partial differential equations with random inputs”, <i>Applied Mathematics and Computation</i>, 463, 128375, 2024.[6] M. Li, Y. Feng and G. Wang[*]. “Estimating failure probability with neural operator hybrid approach”, <i>Mathematics</i>, 11(12), 2762, 2023.[7] G. Wang, F. Xue and Q. Liao. “Localized stochastic Galerkin methods for Helmholtz problems close to resonance”, <i>International Journal for Uncertainty Quantification</i>, 11(5), 77-99, 2021.[8] Q. Huang, K. Li, G. Wang and X. Du. “Stochastic finite element methods with the Euclidean degree for partial differential equations with random inputs”, <i>2020 Chinese Control And Decision Conference (CCDC), Hefei, China</i>, 634-640, 2020.	

- [9] **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.
- [10] **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.
- [11] 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.
- [12] 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.
- [13] 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, 2024-2025;
 - (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^AT_EX , html, etc.