

# Guanjie Wang (Updated August 3, 2024)

---

CONTACT INFORMATION	School of Statistics and Mathematics Shanghai Lixin University of Accounting and Finance No. 995, Shangchuan Road Pudong Area, Shanghai, 201209, China	E-mail: <a href="mailto:wangguanjie0@126.com">wangguanjie0@126.com</a> Homepage: <a href="https://www.mathguanjie.cn/">https://www.mathguanjie.cn/</a>
RESEARCH INTERESTS	Numerical Solution of PDEs, Uncertainty Quantification.	
CURRENT POSITION	<b>Associate Professor</b> Shanghai Lixin University of Accounting and Finance, Shanghai	<i>Dec. 2023~ Present</i>
POSITION OCCUPIED	<b>Lecture</b> Shanghai Lixin University of Accounting and Finance, Shanghai	<i>Mar. 2020~Dec. 2023</i>
	<b>Research Assistant Professor</b> ShanghaiTech University, Shanghai	<i>Apr. 2018~Feb, 2020</i>
	<b>Postdoctoral Fellow</b> Chinese Academy of Sciences, Shanghai	<i>Jul. 2015~Mar. 2018</i>
EDUCATION	<b>Zhejiang University</b> , Hangzhou, Zhejiang, China <i>Doctor of Philosophy</i> , Computational Mathematics	<i>Sep.2010 ~ Jun. 2015</i>
	<b>Qufu Normal University</b> , Qufu, Shandong, China <i>Bachelor of Science</i> , Mathematics and Applied Mathematics	<i>Sep. 2006~ Jul. 2010</i>
PUBLICATIONS	# Co-first Author, * Corresponding Author.	
	<ul style="list-style-type: none"><li>[1] X. Shi, H. Zhang and <b>G. Wang</b>*. ANOVA-GP modeling for high-dimensional Bayesian inverse problems, <i>Mathematics</i>, 12(2), 301, 2024.</li><li>[2] <b>G. Wang</b>, 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>, <b>98</b> (1), 24, 2024.</li><li>[3] <b>G. Wang</b> and Q. Liao. “Reduced basis Galerkin method for partial differential equations with random inputs”, <i>Applied Mathematics and Computation</i>, <b>463</b>, 128375, 2024.</li><li>[4] M. Li, Y. Feng and <b>G. Wang</b>*. “Estimating failure probability with neural operator hybrid approach”, <i>Mathematics</i>, <b>11</b>(12), 2762, 2023.</li><li>[5] <b>G. Wang</b>, F. Xue and Q. Liao. “Localized stochastic Galerkin methods for Helmholtz problems close to resonance”, <i>International Journal for Uncertainty Quantification</i>, <b>11</b>(5), 77-99, 2021.</li><li>[6] Q. Huang, K. Li, <b>G. Wang</b> 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.</li><li>[7] <b>G. Wang</b> and Q. Liao. “An adaptive hybrid spectral method for stochastic Helmholtz problems”, <i>Numerical Mathematics: Theory, Methods and Applications</i>, <b>13</b>(4), 1007-1026, 2020.</li><li>[8] <b>G. Wang</b> and Q. Liao. “Efficient spectral stochastic finite element methods for Helmholtz equations with random inputs”, <i>East Asian Journal on Applied Mathematics</i>, <b>9</b>(3), 601-621, 2019.</li></ul>	

- [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 2021-2022, 2022-2023, 2023-2024, 2024-2025;
  - (3) Advanced Mathematics (B)-calculus II, spring 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 2012-1013, 2013-2014;
  - (2) Introduction to Linear Algebra (oversea students), spring 2012-1013, 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,  $\text{\LaTeX}$ , html, etc.