# Shi Chen

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#### **APPOINTMENTS**

## Department of Mathematics, Massachusetts Institute of Technology, Cambridge, MA

Jul 2024- Jun 2027

➤ Instructor in Applied Mathematics

### **EDUCATION**

### Department of Mathematics, University of Wisconsin- Madison, Madison, WI

Jul 2018- Jun 2024

- ➤ Ph.D. in Applied and Computational Mathematics, Advisor: Qin Li
- > Thesis: Multiscale Numerical Methods for Elliptic and Wave-Type PDEs and Their Inverse Problems

## Department of Mathematical Sciences, Tsinghua University, Beijing, China

Sep 2014- Jul 2018

- ➤ B.S. in Pure and Applied Mathematics (Second Degree), Advisor: Zhongyi Huang
- > Senior Thesis: Modeling and Simulation of Dynamic Property of Metamaterials

# Department of Chemical Engineering, Tsinghua University, Beijing, China

Aug 2013- Jul 2018

- ➤ B.Eng. in Polymer Materials and Engineering, Advisor: Li-Tang Yan
- > Senior Thesis: Simulation of Movement of Microcapsules in Solution with Enzymatic Reactions

### **PUBLICATIONS**

➤ Bayesian Sampling Using Interacting Particles

Shi Chen, Zhiyan Ding, Qin Li, arXiv preprint arXiv:2401.13100 (2024).

➤ A Good Score Does Not Lead to a Good Generative Model

Sixu Li, Shi Chen, Qin Li, arXiv preprint arXiv:2401.04856 (2024).

➤ Accelerating Optimization over the Space of Probability Measures

Shi Chen, Qin Li, Oliver Tse, Stephen J. Wright, arXiv preprint arXiv:2310.04006 (2023).

➤ Correcting Auto-Differentiation in Neural-ODE Training

Yewei Xu, Shi Chen, Qin Li, Stephen J. Wright, arXiv preprint arXiv: 2306.02192 (2023).

> On Optimal Bases for Multiscale PDEs and Bayesian Homogenization

Shi Chen, Zhiyan Ding, Qin Li and Stephen J. Wright, arXiv preprint arXiv: 2305.12303 (2023).

> Learning Harmonic Molecular Representations on Riemannian Manifold

Yiqun Wang, Yuning Shen, **Shi Chen**, Lihao Wang, Fei Ye, Hao Zhou, *International Conference on Learning Representations 2023 (Poster Accepted)*.

On the Global Convergence of Gradient Descent for Multi-Layer ResNets in the Mean-Field Regime.

Zhiyan Ding, Shi Chen, Qin Li and Stephen J. Wright, arXiv preprint arXiv:2110.02926 (2021).

➤ High-Frequency Limit of the Inverse Scattering Problem: Asymptotic Convergence from Inverse Helmholtz to Inverse Liouville

Shi Chen, Zhiyan Ding, Qin Li, Leonardo Zepeda-Núñez, SIAM Journal on Imaging Sciences, 16(1), pp.111-143.

➤ Overparameterization of Deep ResNet: Zero Loss and Mean-Field Analysis

Zhiyan Ding, Shi Chen, Qin Li and Stephen J. Wright, Journal of Machine Learning Research, 2022.

➤ A Reduced Order Schwarz Method for Nonlinear Multiscale Elliptic Equations Based on Two-Layer Neural Networks

**Shi Chen**, Zhiyan Ding, Qin Li and Stephen J. Wright, *Journal of Computational Mathematics*, DOI: 10.4208/jcm.2204-m2021-0311 (2022).

➤ Low-Rank Approximation for Multiscale PDEs

Ke Chen, Shi Chen, Qin Li, Jianfeng Lu, and Stephen J. Wright, *Notices of the American Mathematical Society*, 69(6).

Manifold Learning and Nonlinear Homogenization

Shi Chen, Qin Li, Jianfeng Lu, and Stephen J. Wright, Multiscale Modeling & Simulation, 20(3), pp.1093-1126.

- ➤ Semiclassical Limit of an Inverse Problem for the Schrödinger Equation

  Shi Chen and Qin Li, Research in the Mathematical Sciences, 8 (3), 1-18, 2021.
- ➤ State-Specific Projection of COVID-19 Infection in the United States and Evaluation of Three Major Control Measures

Shi Chen, Qin Li, Song Gao, Yuhao Kang and Xun Shi, *Scientific Reports*, 10 (1), 1-9, the Top 100 Most Highly Accessed Papers in 2020 from *Scientific Reports*.

- ➤ Classical Limit for the Varying-Mass Schrödinger Equation with Random Inhomogeneities Shi Chen, Qin Li and Xu Yang, Journal of Computational Mathematics, 438, 110365, 2021.
- How Implementation of Entropy in Driving Structural Ordering of Nanoparticles Relates to Assembly Kinetics: Insight into Reaction-Induced Interfacial Assembly of Janus Nanoparticles
  Ye Yang, Pengyu Chen, Yufei Cao, Zihan Huang, Guolong Zhu, Ziyang Xu, Xiaobin Dai, Shi Chen, Bing Miao, and Li-Tang Yan, Langmuir, 2018, 34, 32, 9477–9488

### **PRESENTATIONS**

> Graduate Applied Math Seminar, Univ. of Wisconsin-Madison Oct 2023 Talk: A Tutorial on Optimization over the Space of Probability Measures > Workshop on Stability Analysis for Nonlinear PDEs across Multiscale Applications, Penn. State Oct 2023 Talk: Accelerating Optimization over the Space of Probability Measures > IFDS Ideas Forum, Univ. of Wisconsin-Madison Sep 2023 Talk: Accelerating Optimization over the Space of Probability Measures > IFDS Annual Meeting, Univ. of Wisconsin-Madison Sep 2023 Poster: Hamiltonian Flows for Optimizing Probability Measures > AIMS Special Session on Data-driven Methods in Dynamical Systems, UNC, Wilmington Jun 2023 Talk: Zero-loss Neural Network Training in the Mean-field Regime > Inaugural CAMDA Conference, Texas A&M University May 2023 Talk: Zero-loss Neural Network Training in the Mean-field Regime > The Midwest Machine Learning Symposium (MMLS 2023), Univ. of Illinois, Chicago May 2023 Poster: Global Convergence of Gradient Descent for Multi-Layer ResNets with Homogeneous Activation Functions in the Mean-Field Regime

> The International Conference on New Trends in Computational and Data Sciences, Caltech
Poster: High-frequency Limit of the Inverse Scattering Problem -- from Inverse Helmholtz to Inverse Liouville

SIAM Student Chapter Seminar, Univ. of Wisconsin-Madison
 Talk: Classical Limits of Direct and Inverse Wave Type Problems -- A Wigner Transform Approach

> IMA Workshop of Mathematical Foundation and Applications of Deep Learning, Purdue Univ. (Virtual)

Aug 2021

Poster Talk: A Reduced Order Schwarz Method for Nonlinear Multiscale Elliptic Equations Based on Two-Layer Neural Networks

> IFDS Ideas Forum, Univ. of Wisconsin-Madison

Apr 2021

Talk: Low-Dimensional Approximation to PDE Solution Manifold

> SIAM Conference on Computational Science and Engineering (Virtual)

Mar 2021

Poster: Low-Dimensional Approximation to PDE Solution Manifold

> Data Science Research Bazaar, Univ. of Wisconsin-Madison

Feb 2021

Poster: State-Specific Projection of COVID-19 Infection in the United States and Evaluation of Three Major Control Measures

### CONFERENCE AND MINI-SYMPOSIUM ORGANIZED

> AIMS Special Session on Data-driven Methods in Dynamical Systems, UNC, Wilmington

Jun 1, 2023

#### HONORS AND AWARDS

Excellence in Research Graduate Student Awards, University of Wisconsin-Madis	on
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2024

> Excellence in Research Graduate Student Awards, University of Wisconsin-Madison

2023

> Student Travel Support, AIMS Conference on Dynamical Systems, Differential Equations and Applications 2021 > Student Travel Award, 2021 SIAM Annual Meeting (Virtual) 2021 > Student Travel Award, 2021 SIAM Conference on Computational Science and Engineering (Virtual) 2021 > Schaerf Research Award, University of Wisconsin-Madison, 0.5K 2020 > Physical Sciences Award, University of Wisconsin-Madison, 2.5K 2019 > Academic Excellence Award, Tsinghua University, China 2016 > Evergrande Group Scholarship, Tsinghua University, China, 5K 2015 > China National Petroleum Scholarship, Rank 2/110, Tsinghua University, China, 8K 2014 > First Prize, National Undergraduate Physics Contest, Beijing, China 2014  TEACHING EXPERIENCE  Department of Mathematics, University of Wisconsin-Madison, Madison, WI > Teaching Assistant, MATH221, Calculus and Analytic Geometry I Fall 2018, Spring 2020, Fall 2020 > Teaching Assistant, MATH224, Calculus and Analytic Geometry II Spring 2019 > Teaching Assistant, MATH234, Calculus and Analytic Geometry III Fall 2021 > Teaching Assistant, MATH240, Introduction to Discrete Mathematics Spring 2023 > Lecturer Student Assistant, MATH112, Algebra Fall 2023, Spring 2024  INDUSTRIAL EXPERIENCE  ByteDance AI Lab, Mountain View, CA (Virtually) May 2022- Nov 2022 > Research Scientist Internship with the Drug AI Team. Mentor: Yiqun Wang  PROFESSIONAL SERVICE AND OUTREACH  Organizer, SIAM Student Chapter, University of Wisconsin-Madison, Madison, WI Aug 2023- Jul 2024  SKILLS > Programming Languages: Puthon (Pr.Terch, LAY) Matlab, Earten C			
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	Organizer, SIAM Student Chapter, University of Wisconsin- Madison, Madison, WI  Aug 2023- J	ul 2024	
Programming Languages: Puthon (PyTorch, IAY), Motlab, Fortran, C	SKILLS		
1 Togramming Languages. 1 ython (1 y Torch, JAX), Wattau, C	Programming Languages: Python (PyTorch, JAX), Matlab, Fortran, C		

➤ Tools: LaTex, AWS Cloud Computing, Azure Cloud Computing, Linux

# LANGUAGES

English (Full professional proficiency), Chinese (Mandarin and Cantonese, Native proficiency)