

# Wangbo Luo

## Address

Department of Mathematics, George Washington University  
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## EDUCATION

### *Ph.D. in Applied Mathematics*

Department of Mathematics, George Washington University, Washington, DC      2019 - present  
Advisor: Professor Yanxiang Zhao

### *M.S. in Mathematics*

Courant Institute of Mathematical Sciences, New York University, New York, NY      2017 - 2019

### *B.S. in Mathematics and Applied Mathematics*

School of Mathematics, Shandong University, Shandong Province, China      2013 - 2017

## PUBLICATIONS

- W. Luo, Y. Zhao, *Nonlocal effects on a 1D generalized Ohta-Kawasaki model*, Physica D, 458, 133989, 2024.
- W. Luo, Y. Zhao, *Asymptotically compatible schemes for nonlocal Ohta-Kawasaki model*, arXiv:2311.15186, 2024.
- W. Luo, Y. Zhao, *An ultraspherical spectral method for Diblock/Triblock copolymer systems on unit disk*, preprint.
- W. Luo, Y. Zhao, *Nonlocal effects on a 2D Generalized Ohta-Kawasaki model*, preprint.

## CONFERENCE PRESENTATIONS

- Poster presentation at the workshop 'Nonlocality: Challenges in Modeling and Simulation', ICERM, Brown University, Apr. 15-19, 2024.
- Minisymposium talk on 'Nonlocal effects on a 1D Generalized Ohta-Kawasaki model' at the 45th Annual Meeting of the SIAM Southeastern Atlantic Section, March 25-26, 2023.
- Poster presentation at the Women in Scientific Computing on Complex Physical and Biological Systems, University of Florida, Oct. 24-26, 2022.

## ACADEMIC SERVICES

- Conference co-organizer: Spring 2024 Conference on Applied Mathematics of George Washington University Chapter of SIAM, Washington, DC, April 13, 2024.
- Conference co-organizer: Spring 2023 Conference on Applied Mathematics of George Washington University Chapter of SIAM, Washington, DC, April 08, 2023.
- Minisymposium co-organizer: Modeling, Analysis, and Computation of Nonlocal Problems, the 45th Annual Meeting of the SIAM Southeastern Atlantic Section, Blacksburg, VA, March 25-26, 2023.

## TEACHING EXPERIENCE

**Instructor** George Washington University Jan 2024 – May 2024

- Math 2184: Linear Algebra, Spring 2024.

**Graduate Teaching Assistant** George Washington University Sep 2019 – May 2022

- Math 1231: Single Variable Calculus I, Spring 2022, Spring 2023.
- Math 1232: Single Variable Calculus II, Fall 2020, Spring 2021, Fall 2021, Fall 2022.
- Math 1007: Mathematics and Politics, Fall 2019, Spring 2020.

**Teaching Assistant** New York University Sep. 2018 – May. 2019

- MATHUA 9: Algebra and Calculus, Fall 2018, Spring 2019.

## PROFESSIONAL ACTIVITIES

- President of George Washington University Student Chapter of SIAM, Sep. 2022 – present.
- Vice President of George Washington University Student Chapter of SIAM, Sep. 2021 – 2022.
- Organizer of Graduate Student Experience Seminar in Department of Mathematics, George Washington University, Sep. 2021 – present.

## HONORS and AWARDS

- **The Marvin Green Prize**, in recognition of the outstanding graduate student who has made significant use of computing in the work, 2024, George Washington University.
- **Student Chapter Certificate of Recognition**, in recognition of students for outstanding service and contributions to GWU Student Chapters of SIAM, 2023, SIAM.
- **The James H. Taylor Graduate Mathematics Prize**, in recognition of the best doctoral candidate in the Department of Mathematics, 2023, George Washington University.
- **Graduate Student Teaching Award**, in recognition of the best graduate teaching assistant, 2023, George Washington University.
- **Graduate Assistantship and University Fellowship**, 2020 –2025, George Washington University.
- **Teaching Assistantship**, 2018 – 2019, New York University.

## COMPUTATIONAL SKILLS

- Python, Matlab, Mathematica.

## **PROFESSIONAL SOCIETIES**

- Member of American Mathematical Society (AMS).
- Member of Society for Industrial and Applied Mathematics (SIAM).