Kewei Wang

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Education

Courant Institute, New York University New York, NY
Ph.D. in Mathematics (expected), advised by Prof. Georg Stadler 2024 - 2029

Peking University Beijing, China
B.S. in Computational Mathematics 2020 - 2024

Research

Research interests: optimization under uncertainty, PDE-constrained optimization, Bayesian inverse problems, and relevant applications.

Publication

[1] K. Wang and G. Stadler, "Infinite-dimensional spherical-radial decomposition for probabilistic functions, with application to constrained optimal control and gaussian process regression," *arXiv:2603.19907*, 2026.

[2] K. Ren, N. Soedjak, and K. Wang, "Unique determination of cost functions in a multipopulation mean field game model," *Journal of Differential Equations*, vol. 427, pp. 843–867, 2025.

[3] K. Ren, N. Soedjak, K. Wang, and H. Zhai, "Reconstructing a state-independent cost function in a mean-field game model," *Inverse Problems*, vol. 40, no. 10, p. 105 010, 2024.

Teaching

Teaching Assistant at NYU Courant

- Math-UA 132: Math for Economics II — Spring 2026, Fall 2025

Awards

- Charles Newman Fellowship — 2026
- Henry M. MacCracken Fellowship
  Full Ph.D. support at NYU — 2024-2029
- Silver Award, Lin Award (Applied and Computational Mathematics) in S.-T. Yau College Student Mathematics Contest — June 2023

Miscellaneous

- Software and programming languages: MATLAB, Python, LaTeX.
- Languages: English - Fluent, Chinese - Native.