

# Ling Wang

School of Mathematical Science, Peking University

No. 5 Yiheyuan Road, Haidian District, Beijing, P.R.China 100871

Office: Room 203, Building 19, Peking University

E-mail: [lingwang@stu.pku.edu.cn](mailto:lingwang@stu.pku.edu.cn)

Personal website: [lwmath.github.io](https://lwmath.github.io)

## Research interests

Geometric Analysis & Nonlinear PDEs, especialy Monge-Ampère type equations.

## Education

- 2020.9 – Present     **Peking University** – Beijing, China  
PhD in pure mathematics  
Mentors: Professor Bin Zhou.
- 2020.2 – 2020.6     **Beijing International Center for Mathematical Research** – Beijing, China  
Visiting student, pure mathematics.
- 2016.9 – 2020.6     **Beijing Normal University** – Beijing, China  
BA in mathematics and applied mathematics  
Mentors: Professor Haigang Li.

## Publications

- [6]     **L. Wang**. Interior Hölder regularity of the linearized Monge-Ampère equation. Preprint.
- [5]     **L. Wang**, B. Zhou.  $C^{1,\alpha}$  regularity of variational problems with a convexity constraint. Preprint.
- [4]     **L. Wang**, B. Zhou. Liouville theorems for a class of degenerate or singular Monge-Ampère equations. Preprint.
- [3]     Y. H. Kim, N. Q. Le, **L. Wang**, B. Zhou. Singular Abreu equations and linearized Monge-Ampère equations with drifts. Preprint.
- [2]     **L. Wang**, B. Zhou. Interior estimates for Monge-Ampère type fourth order equations. *Rev. Mat. Iberoam.*, **39** (2023), no. 5, 1895–1923.

- [1] H. G. Li, J. -N. Wang, **L. Wang**. Refined stability estimates in electrical impedance tomography with multi-layer structure. *Inverse Probl. Imaging*, **16** (2022), no. 1, 229–249.

## Honors and scholarships

- 2023    Presidential Scholarship (Peking University)  
         Merit Student (Peking University)
- 2022    Exceptional Award for Academic Innovation (Peking University)

## Talks

- March 24, 2024    Ph.D. Mathematics Forum, School of Mathematics and Statistics of Wuhan University, Wuhan, China
- March 30, 2022    Geometric PDE seminar, Academy of Mathematics and Systems Science of the Chinese Academy of Sciences, Beijing, China

## Teaching experience

- Spring 2024    **Teaching assistant, Advanced math B (PKU)**
- Fall 2023    **Teaching assistant, Mathematical analysis III (PKU)**
- Spring 2023    **Teaching assistant, Mathematical analysis II (PKU)**
- Fall 2022    **Teaching assistant, Mathematical analysis I (PKU)**
- Spring 2022    **Teaching assistant, Arithmetic of elliptic curves (PKU)**  
                     **Teaching assistant, Diophantine approximation (PKU)**
- Fall 2021    **Teaching assistant, Mathematical analysis I (PKU)**
- Spring 2021    **Teaching assistant, Functional analysis (PKU)**
- Fall 2020    **Teaching assistant, Advanced math C (PKU)**