LING WANG

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PERSONAL INFORMATION

Gender	Male	**Citizenship**	Chinese Citizen
Date of Birth	July 18, 1998	**Marital status**	Single
Place of Birth	Chongqing, China		

RESEARCH INTERESTS

Geometric Analysis & Nonlinear PDEs, especially Monge-Ampère type equations

POSITIONS

Department of Decision Sciences and BIDSA, Bocconi University — Milan, Italy
Postdoctoral Fellow — 2025.9 – 2027.8
- Supervisor: Prof. Antonio De Rosa

EDUCATION

School of Mathematical Science, Peking University — Beijing, China
Ph.D. in Pure Mathematics — 2020.9 – 2025.6
- Thesis: Monge-Ampère type fourth-order equations and applications
- Supervisor: Prof. Bin Zhou

Beijing International Center for Mathematical Research, Peking University — Beijing, China
Visiting student, Pure Mathematics — 2020.2 – 2020.6

School of Mathematical Science, Beijing Normal University — Beijing, China
B.S. in Mathematics and Applied Mathematics — 2016.9 – 2020.6
- Thesis: A Study on the Depth Dependence of Inclusions in Inverse Problems
- Supervisor: Prof. Haigang Li

PUBLICATIONS AND PREPRINTS

[10] Guoqing Cui, **Ling Wang**, Bin Zhou. Potential and Hölder estimates for the linearized Monge-Ampère equation. Preprint.

[9] **Ling Wang**, Bin Zhou. The Guillemin boundary value problem for the Abreu equation. Preprint.

[8] Wenkui Du, **Ling Wang**, Yang Yang. Flat level sets of Allen-Cahn equation in half-space. Preprint.

[7] **Ling Wang**, Bin Zhou. The partial Legendre transform in Monge-Ampère equations. *Surveys in Geometric Analysis 2024*.

[6] **Ling Wang**. Interior Hölder regularity of the linearized Monge-Ampère equation. *Calculus of Variations and Partial Differential Equations*, **64** (2025), no. 1, Paper No. 17.

[5] **Ling Wang**, Bin Zhou. $C^{1,\alpha}$ regularity of variational problems with a convexity constraint. Preprint.

[4] **Ling Wang**, Bin Zhou. Liouville theorems for a class of degenerate or singular Monge-Ampère equations. *Journal of Geometric Analysis*, **34** (2024), no. 11, Paper No. 352.

[3] Young Ho Kim, Nam Quang Le, **Ling Wang**, Bin Zhou. Singular Abreu equations and linearized Monge-Ampère equations with drifts. To appear in *Journal of the European Mathematical Society*.

[2] **Ling Wang**, Bin Zhou. Interior estimates for Monge-Ampère type fourth order equations. *Revista Matemática Iberoamericana*, **39** (2023), no. 5, 1895–1923.

[1] Haigang Li, Jenn-Nan Wang, **Ling Wang**. Refined stability estimates in electrical impedance tomography with multi-layer structure. *Inverse Problems and Imaging*, **16** (2022), no. 1, 229–249.

AWARDS & HONORS

- **Outstanding Graduates**, Peking University 2025
  Outstanding Doctoral Dissertation, Peking University
- **China National Scholarship**, Ministry of Education of the People's Republic of China 2024
  Presidential Scholarship, Peking University
  Outstanding Research Award, Peking University
- **Presidential Scholarship**, Peking University 2023
  Merit Student, Peking University
- **Exceptional Award for Academic Innovation**, Peking University 2022
- **Outstanding Graduates**, Beijing Normal University 2020
  The First Prize Scholarship, Beijing Normal University

CONFERENCE TALKS

3. **Title**: *Monge-Ampère type equations in two dimensions* June 29-July 5, 2025
   Workshop on Geometric Analysis 2025 (30 minutes), Research Center for Mathematics and Interdisciplinary Sciences of Shandong University, Qingdao, China
2. **Title**: *Flat level sets of Allen-Cahn equation in half-space* March 15, 2025
   Workshop on Geometric Analysis and Ricci Flow 2025, Institute for Theoretical Sciences of Westlake University, Hangzhou, China
1. **Title**: *Singular Abreu equations and linearized Monge-Ampère equations with drifts* July 21-27, 2024
   Workshop on Geometric Analysis 2024 (30 minutes), School of Mathematical Sciences of Inner Mongolia University, Hohhot, China

SEMINAR & COLLOQUIUM TALKS

7. **Title**: *Bernstein-type theorems for geometric PDEs* July 29, 2025
   Geometric Analysis seminar, Institute for Theoretical Sciences of Westlake University, Hangzhou, China
6. **Title**: *Interior estimates for the Monge-Ampère type fourth-order equations* May 6, 2025
   Mathematics Colloquium, School of Mathematical Sciences of Nankai University, Tianjin, China
5. **Title**: *A revisit to the De Giorgi conjecture: Savin's proof and applications* April 21, 2025
   Geometry&Topology seminar, Institute of Mathematical Sciences of ShanghaiTech University, Shanghai, China
4. **Title**: *Partial Legendre transform: two-dimensional and higher-dimensional cases* April 17, 2025
   Geometry&Analysis seminar, School of Mathematical Sciences of Shanghai Jiao Tong University, Shanghai, China
3. **Title**: *Bernstein-type theorems for geometric PDEs* April 16, 2025
   Mathematics Colloquium, School of Mathematical Sciences of Fudan University, Shanghai, China
2. **Title**: *Interior estimates for the Monge-Ampère type fourth order equations* March 24, 2024
   Ph.D. Mathematics Forum (13 minutes), School of Mathematics and Statistics of Wuhan University, Wuhan, China
1. **Title**: *A revisit to affine Bernstein problem* March 30, 2022
   Geometric PDE seminar, Academy of Mathematics and Systems Science of the Chinese Academy of Sciences, Beijing, China

TEACHING EXPERIENCE

Peking University

Teaching assistant

- Advanced math B — Spring 2024
- Mathematical analysis III — Fall 2023
- Mathematical analysis II — Spring 2023
- Mathematical analysis I — Fall 2022
- Arithmetic of elliptic curves
  Diophantine approximation — Spring 2022
- Mathematical analysis I — Fall 2021
- Functional analysis — Spring 2021
- Advanced math C — Fall 2020

ACADEMIC SERVICES

Referee for several journals including: *Pure and Applied Mathematics Quarterly*