

Chunyang Hu

📍 School of Mathematical Sciences, University of Science and Technology of China. 96 Jinzhai Road, Hefei, China.

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Education

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| University of Science and Technology of China Hefei, Anhui Province, China
<i>Integrated Master's and Doctoral Program in Discrete Geometry Analysis,</i>
<i>Supervisor: Prof. Shiping Liu.</i> | <i>Sept. 2020 – At present</i> |
| Central China Normal University Wuhan, Hubei Province, China
<i>Bochner's degree in Mathematics and Applied Mathematics.</i> | <i>Sept. 2016 – June 2020</i> |

Research Works

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- **Chunyang Hu** and Shiping Liu, *Vertex isoperimetry on signed graphs and spectra of non-bipartite Cayley and Cayley sum graphs*. European Journal of Combinatorics. **130**, (2025), 104200.
 - **Chunyang Hu** and Shiping Liu, *Discrete Bakry-Émery curvature tensors and matrices of connection graphs*. arXiv:2209.10762. Accepted for publication in Advances in Applied Mathematics subject to minor revision.
 - Kaizhe Chen, **Chunyang Hu**, Shiping Liu and Heng Zhang, *Ricci curvature, diameter and eigenvalues of amply regular graphs*, arXiv:2410.21055. Submitted.
 - **Chunyang Hu**, Bobo Hua, Supanat Kamtue, Shiping Liu, Florentin Münch, and Norbert Peyerimhoff, *On a magneto-spectral invariant of finite graphs*, arXiv:2507.03754. Submitted.

Academic Talks

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- 2022, Nov., "Fudan-USTC" Spectral Geometry Academic Conference, Student Reports.
 - 2023, Nov., "Fudan-USTC" Spectral Geometry Academic Conference, Student Reports.
 - 2024, Nov., Weekly Seminar on Discrete Geometric Analysis on graphs, Student Report.
 - 2024, Nov., "Fudan-USTC" Spectral Geometry Academic Conference, Student Reports.

Academic Visiting

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- Visiting Professor Norbert Peyerimhoff in Durham University for a whole year, funded by the Outstanding PhD Students Overseas Study Program of the University of Science and Technology of China, May 2025 – April 2026.

Teaching Assistant Experiences

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- Complex Analysis(B), 2022 Fall.
 - Mathematical Analysis(B1), 2023 Fall.
 - Mathematical Analysis(B2), 2024 Spring.
 - Differential Geometry, 2024 Fall.

Scholarships

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- "The First-Class Academic Scholarship" at CCNU, Oct. 2017 and Oct. 2018.
 - "The First-Class Academic Scholarship for Postgraduate Students" at USTC, Oct. 2020, Oct. 2021, Oct. 2022 and Oct. 2023.
 - "The Second-Class Academic Scholarship for Postgraduate Students" at USTC, Oct. 2024.

Volunteer Works

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- Volunteer for the Summer Camp of Graduate Student Recruitment in the School of Mathematical Sciences, July 2022 and July 2023.

Technique

- Language, CET-6(College English Test Band 6).
- Computer Science, NCRE II(National Computer Rank Examination II).