

# Chunyang Hu

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## Education

<b>University of Science and Technology of China</b> 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>
<b>Central China Normal University</b> Wuhan, Hubei Province, China <i>Bochner's degree in Mathematics and Applied Mathematics.</i>	<i>Sept. 2016 – June 2020</i>

## Research Works

- **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

- 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

- 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

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

## Scholarships

- "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

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

## **Technique**

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