Curriculum Vitae Binhe Huang

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South China University of Technology, BS in Mathematics Sept 2020 - June 2024 • GPA: 90.07/100 • Coursework: Linear Algebras, Analysis, Advance Modern Algebras Southern University of Science and Technology, MSc in Mathematics Sept 2024 – present • Supervisor: Vyacheslav Futorny • GPA: 3.75/4.0 Coursework: Algebraic Curves, Topics in Algebra, Abstract Algebra II, Algebraic Geometry, Combinatorics Research Interests Representation theory of Lie algebras, Quantum groups, Kac-Moody Lie algebras **Personal Reading** • Introduction to Quantum Groups (G. Lusztig) July 2025 - present • Representations of Semisimple Lie Algebras in the BGG Category \mathcal{O} (J. E. Oct 2024 - present Humphreys) Nov 2023 - Nov 2024 • Introduction to Lie Algebras and Representation Theory (J. E. Humphreys) **Projects** • **Preprint:** *Highest weight modules of simple Lie superalgebras in characteristic 2,* B. Mar 2025 - present Huang, S. Bouarroudj, Q. Ehret, J. A. Ramírez-Bermúdez • **Master thesis**: A survey of quantum groups and \imath quantum groups. July 2025 - present **Teaching Activities** • Exercise Class of Advanced Linear Algebra I, MA107 Sept 2024 - Jan 2025 • Exercise Class of Advanced Linear Algebra II, MA111 Feb 2025 - June 2025 Technologies • Languages: Chinese (native), English (IELTS: 6.5/9 in 2024), Cantonese (listening and speaking) • Skills: ŁTĘX, Python

Conferences (attended)

2024:

- Sichuan University, Workshop of Algebraic, analysis, geometric structures emerging from quantum field theory, March 1-15
- Guangzhou University, Workshop of Lie theory and related topic in 2024, April 26 May 1
- $\bullet\,$ SICM, Non-Associative Algebras, Representations and Applications, November 17-23

2025:

- SICM, Shenzhen Thematic Program "Representation Theory": Quantum Groups, March 23-27
- SCUT, 2025 SCUT workshop on Lie theory, April 18-21

- SICM, Shenzhen Thematic Program "Representation Theory": Vertex Algebras, April 20-26
- SICM, Shenzhen Thematic Program "Representation Theory": Lie Algebras, May 25-31
- Nankai University, Workshop on algebras and applications in mathematical physics, June 29 July 2

Scholarship

Special Scholarship for Postgraduate Students

2025

References

Chair Professor Vyacheslav Futorny
Professor Iryna Kashuba
Professor Sofiane Bouarroudj
Southern University of Science and Technology
SUSTech International Center of Mathematics

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