Curriculum Vitae Binhe Huang

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South China University of Technology, BS in Mathematics	Sept 2020 - May 2024
• GPA: 90.07/100	
Coursework: Linear Algebras, Analysis, Advance Modern Algebras	
Southern University of Science and Technology, MSc in Mathematics	Sept 2024 – presen
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 - presen
Representations of Semisimple Lie Algebras in the BGG Category $\mathcal O$ (J. E. Humphreys)	Oct 2024 - presen
• Introduction to Lie Algebras and Representation Theory (J. E. Humphreys)	Nov 2023 - Nov 2024
Projects	
• Preprint: Highest weight modules of simple Lie superalgebras in characteristic 2, B. Huang, S. Bouarroudj, Q. Ehret, J. A. Ramírez-Bermúdez	Mar 2025 - present
• Master thesis: A survey of quantum groups and iquantum groups.	July 2025 - presen
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 ar	nd speaking)
• Skills: Ł̃TĘX, 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
- 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 Southern University of Science and Technology SUSTech International Center of Mathematics vfutorny@gmail.com ikashuba@gmail.com https://www.sustech.edu.cn/ https://icm.sustech.edu.cn/