

Education Background

Sun Yat-sen University

Zhuhai

Undergraduate, School of Mathematics (Zhuhai)

2022 - present

Courses

Commutative Algebra (Graduate)

Feb 2024 - Jun 2024

- Textbook: Introduction to Commutative Algebras, M.F. Atiyah, I.G. Macdonald.
- o Instructor: Prof. Lei Zhang.
- **Grade point:** 77/100.

Representation Theory (Graduate)

Feb 2024 - Jun 2024

- Textbook: Introduction to Lie Algebras and Representation Theory, J.E. Humphreys.
- Instructor: Prof. Min Huang.
- **Grade point:** 96/100.

Real Analysis (Graduate)

Sept 2024 - Jan 2025

- Textbook: Measure Theory and Fine Properties of Functions, L.C. Evans, R.F. Gariepy.
- o Instructor: Prof. Xining Li.
- **Grade point:** 85/100.

Selected Topics in Number Theory (Graduate)

Feb 2025 - present

- Textbook: A Classical Introduction to Modern Number Theory, Kenneth Ireland, Michael Rosen.
- Instructor: Prof. Chan leong Kuan.

Research Experience

Peking University

Peking

PKU Algebraic Combinatorics Experience

Jul 2024 – Aug 2024

- o Summary: On Bott–Samelson rings for Coxeter groups. One can see [arxiv.org/abs/2408.10155] for details.
- o Advisor: Dr. Tao Gui.
- o Collaborators: Lin Sun, Shihao Wang.

Sun Yat-sen University

Zhuhai

College Students' Innovative Entrepreneurial Training Plan Program Oct 2024 – present

- o Summary: Comparing skein algebras and quantum cluster algebras of certain semisimple Lie algebras.
- o Advisor: Prof. Min Huang.

Skills

Programming languages: MATLAB, SageMath, LaTeX.