

Fang Yang

Curriculum Vitae



Personal Information

Adresse Vivatsgasse 7, MPIM,
Bonn, 53111, Germany
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Birthday May 11, 1996

Education

2014-2019 **Bachelor of Science**, *Sun Yat-Sen University*
2019-2024 **Doctor of Philosophy**, *Tsinghua University*, Supervisor: Fan Xu
2024-now **Postdoc**, *Max-Planck Institute for Mathematics*, Bonn

Scholarships

2015-2019 Endeavor Scholarship (Awarded by Chinese Ministry of Education)
2018-2019 Outstanding graduate of Sun Yat-Sen University
2020-2023 Graduate Scholarship (Awarded by Tsinghua University)

Interests

Algebraic Representation Theory	Calabi-Yau category and tilting theory, coherent sheaves on weighted projective lines, preprojective algebra and Hall algebra.
Geometric Representation Theory	Categorification, semicanonical basis and Nakajima quiver variety, cohomological Hall algebra
Combinatorial Theory	Quantum cluster algebra and Donaldson-Thomas invariants.

Teaching

Fall 2019-2020 **Teaching Assistant in Abstract Algebra I**
Each semester in
2020-2022 **Teaching Assistant in Linear Algebra**

Presentations

Jun. 2023 **Representation Theory in Lyon**, *Université Lyon 1 in Villeurbanne*

- Nov. 2023 **The 16th National Algebra Academic Conference**, *Huaqiao University*
- Mar. 2024 **Workshop on bricks and endofinite representations**, *Bielefeld University*
- Oct. 2025 **Collaborations in Algebra, Representation theory and Ethics**, *ENS Lyon*

Else

Research visits

- 2023.2-2023.6 **Visiting Ph.D. Student**, *Université Paris-Saclay*, under guidance of Professor Olivier Schiffmann

Conferences

- Jul. 2023 **Geometric Representation Theory and Applications**, *Tsinghua University*
- Jul. 2023 **International Congress of Basic Science**, *Beijing City government*
- Nov. 2023 **Algebraic Representation Theory**, *Beijing Normal University*
- Aug. 2024 **International Conference on Representations of Algebras (ICRA 21, 2024)**, *Shanghai Jiao Tong University*
- Mar. 2025 **Algebra Days in Caen 2025: Categorization and quantification in cluster theory and beyond**, *University of Caen-Normandy*
- Apr. 2025 **Enveloping Algebras and Geometric Representation Theory**, *Mathematisches Forschungsinstitut Oberwolfach*
- Jun. 2025 **Enumerative Geometry and Geometric Representation Theory**, *Università di Pisa*
- Sep. 2025 **ARTA X: Advances in Representation Theory of Algebras**, *University of Cologne*

Seminars

- Spring 2022 **Deriving DG categories**, *Bernhard Keller*,
Reference: Deriving DG categories, Bernhard Keller.
- Fall 2022 **Cluster algebras and scattering diagrams**, *Yutong Yu*,
Reference: Wall-Crossing Structures in Cluster Algebras, Lang Mou.
- Fall 2022 **Quiver varieties and Coulomb branches**, *Dylan G Allegretti, Peng Shan*,
Reference: K-theoretic Coulomb Branches of quiver Gauge theories and cluster varieties, Gus Schrader, Alexander Shapiro.
- Fall 2023 **Integral homology of loop groups and affine Grassmannians**, *Boming Jia, Peng Shan*,
Reference: An introduction to affine Grassmannians and the geometric Satake equivalence, Xinwen Zhu.