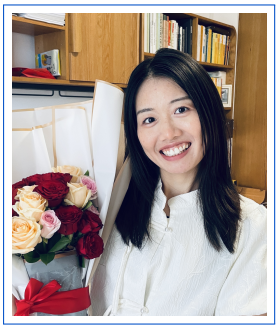

Fang Yang

Curriculum Vitae

Personal Information

Adresse	Tsinghua University, Haidian District, Beijing, 100084, P.R.China
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Birthday	May 11, 1996

Education

2014-2019	**Bachelor of Science**, *Sun Yat-Sen University*
2019-Jun, 2024	**Doctor of Philosophy**, *Tsinghua University*, Supervisor: Fan Xu

Scholarships

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

Publication list

[1] F. Xu und F. Yang. “Applications of spherical twist functors to Lie algebras associated to root categories of preprojective algebras”. In: *Journal of Algebra* 622 (2023), S. 556–586. ISSN: 0021-8693. DOI: https://doi.org/10.1016/j.jalgebra.2023.02.005.

[2] F. Xu und F. Yang. “Quantum cluster algebras associated to weighted projective lines”. In: (2022). arXiv: 2207.02837 [math.RT].

[3] J. Xiao, F. Xu und F. Yang. “Motivic cluster multiplication formulas in 2-Calabi-Yau categories”. In: (2023). arXiv: 2310.04849 [math.RT].

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*

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*

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.