Shuang Ming

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Born: December 22nd 1990—Wuhan, China
Nationality: Chinese

Education

2009-2013	A.B in Mathematics, Wuhan University, China
2009-2013	A.B in Economics, Wuhan University, China
2013-2019	Ph.D in Mathematics, University of California, Davis(Advisor: Greg Kuperberg)

Employment

2019-2022	Visiting Assistant Professor, Texas A&M University
2022-	Postdoctoral, BIMSA

Research interest

Quantum algebra, geometric topology and representation theory

Publications and Preprints

2018	(with Greg Kuperberg) *On TQFT representations of mapping class groups with boundary. arXiv:1809.06896*
2022	(with Zhaobidan Feng and Eric Rowell) *Reconstructing mordular subcategories of $SU(N)_k$.(submitted) arXiv:2202.00121*
2023	(with Zhengwei Liu, Yilong Wang and Jinsong Wu) *3-Alterfolds and Quantum Invariants. arXiv:2307.12284*

Invited talks

2018 Feb	UC Davis Student-Run Applied & Math Seminar: "Quantum representations of mapping class groups and braid groups."
2018 Nov	TAMU Geometry Seminar: "Irreducibility and Denseness of TQFT representations of mapping class groups"
2019 Jan	Joint Mathematics Meetings: "On TQFT representations of mapping class groups."
2022 Mar	AMS Sectional meeting on quantum algebra and quantum topology: "Reconstructing braided subcategories of $SU(N)_k$".
2023 Jun	Quantum Theory and Operator Theory: "Tensor categories and bi-colored three manifolds."

Conferences and Workshops

2016	Southeastern Lie Theory Workshop: Algebraic Groups, Quantum Groups and Geometry, University of Virginia, May 24-27.
2016	Workshop on Algebra and Representation Theory: Knot homologies, Hilbert schemes, and Cherednik algebras, University of Oregon, July 25-29.
2017	Summer school 2017 of the IMJ-PRG: Mapping class groups and their representations, Jussieu Campus, July 3-7.
2017	Fall Western Sectional Meeting, University of California, Riverside, November 4-5.
2018	Mathematics Research Communities: Quantum Symmetries: Subfactors and Fusion Categories, Rhode Island, June 10-16.
2019	Categorification in Quantum Topology and beyond, ESI, Vienna, January 6-18.
2019	Joint Mathematics Meetings, Baltimore, January 16-19.
2019	Conference on New Developments in Quantum Topology, University of California, Berkeley, June 3-7.
2020	Tensor categories and topological quantum field theories, MSRI, Berkeley, March 16-20.(Moved online)
2022	AMS Sectional meeting on quantum algebra and quantum topology, Purdue University, March, 26-27.
2023	Quantum Theory and Operator Theory satellite conference, BIMSA, July, 11-14.
2023	The 1st International Congress of Basic Science, BIMSA, July, 16-28.
2023	IWoAT Summer School 2023: Operads, spectra, and multiplicative structures, BIMSA, August, 14-19.

Teaching

2017 Winter	Instructor for 21B Calculus(UC Davis)
2018 Summer	Instructor for 21B Calculus(UC Davis)
2013-2018	Teaching Assistant at UC Davis
2019 Fall	Instructor for 152 Engineering Calculus(TAMU)
2020 Spring	Instructor for 304 Linear Algebra(TAMU)
2020 Fall	Instructor for 304 Linear Algebra(TAMU)
2021 Spring	Instructor for 304 Linear Algebra(TAMU)
2021 Fall	Instructor for 304/323 Linear Algebra(TAMU)
2022 Spring	Instructor for 323 Linear Algebra(TAMU)
2023	Teaching Assistant at BIMSA