

# Jinting Liang – Résumé

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<b>Nationality</b>	Chinese	<b>Email</b>	liangj26@msu.edu

## Education

**2019-NOW** MICHIGAN STATE UNIVERSITY, East Lansing, MI, U.S.

Advisor: Professor Bruce E. Sagan.

**2016-2019** NANKAI UNIVERSITY, Nankai, Tianjin, China

M.S. in Mathematics, June 2019.

**2012-2016** EAST CHINA NORMAL UNIVERSITY, Shanghai, China.

B.S. in Mathematics, June 2016.

## Publications and Preprints

- **Differential expansion for link polynomials**, With C. Bai, J. Jiang, A. Mironov, A. Morozov, An. Morozov, A. Sleptsov.  
*Physics Letters B, Volume 778, 2018.*
- **Quantum Racah matrices up to level 3 and multicolored link invariants**, with C. Bai, J. Jiang, A. Mironov, A. Morozov, An. Morozov, A. Sleptsov.  
*Journal of Geometry and Physics, Volume 132, 2018, Pages 155-180.*
- **Cyclic Shuffle Compatibility**, with Rachel Domagalski, Quinn Minnich, Bruce E. Sagan, Jamie Schmidt, Alexander Sietsema.  
*Séminaire Lotharingien de Combinatoire, Volume 85, 2020, 11 pp.*
- **Admissible Poisson bialgebras**, with Jiefeng Liu, Chengming Bai.  
*International Journal of Mathematics, Vol. 32, No. 14, 2150106 (2021).*
- **Cyclic Pattern Containment and Avoidance**, with Rachel Domagalski, Sergi Elizalde, Quinn Minnich, Bruce E. Sagan, Jamie Schmidt, Alexander Sietsema.  
*Advances in Applied Mathematics, Volume 135, 2022.*
- **Pinnacle Set Properties**, with Rachel Domagalski, Jinting Liang, Quinn Minnich, Bruce E. Sagan, Jamie Schmidt, Alexander Sietsema.  
*Discrete Mathematics, Volume 345, Issue 7, 2022.*
- **Rowmotion on rooted trees**, with Pranjal Dangwal, Jamie Kimble, Jianzhi Lou, Bruce E. Sagan and Zach Stewart.  
*To appear in Séminaire Lotharingien de Combinatoire, B88a (2023), 21 pp.*
- **Enriched toric  $[\vec{D}]$ -partitions**  
*To appear in Algebraic Combinatorics.*
- **Cyclic shuffle-compatibility via cyclic shuffle algebras**, with Bruce E. Sagan and Yan Zhuang.  
*To appear in Annals of Combinatorics*

## Awards, Fellowships and Scholarships

<b>2014</b>	First Prize in China Undergraduate Mathematical Contest In Modeling (as a member in a three-student team)
<b>2015</b>	National Scholarship, China
<b>2017-2018</b>	National Scholarship, China
<b>2019-2020</b>	NSF Recruiting Fellowship
<b>2020-2023</b>	Department of Mathematics Recruiting Fellowship
<b>2022</b>	AMS Travel Support Award
<b>2023</b>	TA Award for Excellence in Teaching with the Department of Mathematics, MSU

## Research Talks and Posters

2017	Topological Fields, String Theory and Matrix Models, Russia
2018	Topological Fields, String Theory and Matrix Models-2018, Russia
2021	CanadAM2021, Canada, virtual
2021	Permutation Patterns 2021, United States, virtual
2022	2022 Joint Mathematics Meetings, United States, virtual
2022	2022 Fall Southeastern Sectional Meeting, TN, United States
2022	Combinatorics and Graph Theory Seminar, Michigan State University, MI, United States
2023	Seminar, Nankai University, China, virtual
2023	FPSAC, UC Davis (poster)

## Supervising

Fall 2021	Lead Teaching Assistant
Spring 2022	Lead Teaching Assistant for MTH 132
Fall 2023	Professional development facilitator

## Teaching

Fall 2023	Instructor – MTH 133 Calculus II
Spring 2023	Teaching Assistant – MTH 133 Calculus II, Grader – MTH 411 Abstract Algebra II
Fall 2022	Teaching Assistant – MTH 133 Calculus II
Spring 2022	Instructor – MTH 132 Calculus I
Fall 2021	Teaching Assistant – MTH 299 Transitions
Spring 2021	Teaching Assistant – MTH 102 Quantitative Literacy II
Fall 2020	Instructor – MTH 299 Transitions