Yining Zhang

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Employment	Visiting Assistant Professor Department of Mathematics, University of Colorado, Boulder, CO, USA	2019-2022	
Education	Ph.D. in Mathematics <i>Indiana University</i> , Bloomington, IN, USA Thesis title: Cyclic pairings and noncommutative Poisson structures Thesis Advisor: Ajay C. Ramadoss	2013-2019	
Research Interests	Homological algebra, homotopical algebra, and noncommutative geometry		
Publications & Preprints	 Curved Koszul duality and cyclic (co)homology. Preprint (2021), arXiv:2110.04893. Hodge decomposition of string topology (joint with Yu. Berest and A. C. Ramadoss). Forum Math. Sigma 9 (2021), e33. Cyclic pairings and derived Poisson structures (joint with A. C. Ramadoss). New York J. Math. 25 (2019), 1-44. Dual Hodge decompositions and derived Poisson brackets (joint with Yu. Berest and A. C. Ramadoss). Selecta Math. (N.S.) 23 (2017), no. 3, 2029-2070. 		
Invited Talks	 Curved Koszul duality and cyclic (co)homology Topology Seminar, Bowling Green State University, Bowling Green, OH, USA Curved Koszul duality and cyclic (co)homology Deformation Theory Seminar, University of Pennsylvania, Philadelphia, PA, USA 	March 2022 Nov. 2021	
	 Hodge decomposition of string topology Topology Seminar, Purdue University, West Lafayette, IN, USA Derived Poisson structures and derived representation schemes Geometry and Topology Seminar, Sichuan University, Chengdu, China Derived Poisson structures and derived representation schemes Postdoc Seminar, BICMR, Peking University, Beijing, China Dual Hodge decompositions and derived Poisson brackets Geometry and Physics Seminar, Yau Mathematical Sciences Center, Tsinghua University, Beijing, China 	April 2020 Dec. 2018 Dec. 2018 June 2017	
	 Dual Hodge decompositions and derived Poisson brackets Algebra Seminar, Capital Normal University, Beijing, China 	June 2017	

Seminar Talks	 Curved Koszul duality and cyclic (co)homology Noncommutative Geometry Seminar, University of Colorado, Boulder, CO, USA 	Nov. 2021
	 Hodge decomposition of string topology <i>Noncommutative Geometry Seminar</i>, University of Colorado, Boulder, CO, USA 	April 2020
	 The Kontsevich-Rosenberg principle for bi-symplectic forms Graduate Student Poisson Seminar, Indiana University, Bloomington, IN, USA 	April 2018
	4. Poisson homology and cohomology Graduate Student Poisson Seminar, Indiana University, Bloomington, IN, USA	February 2018
	 Graded and DG Poisson algebras Graduate Student Poisson Seminar, Indiana University, Bloomington, IN, USA 	January 2018
	 Poincaré duality CDGA and Hochschild homology of coalgeb Graduate Student String Topology Seminar, Indiana University, Bloomington, IN, USA 	oras Nov. 2017
	 Smoothness: Commutative vs Non-commutative Graduate Student Algebra Seminar, Indiana University, Bloomington, IN, USA 	October 2016
Teaching Experience	 University of Colorado, Boulder, CO, USA Homological Algebra Spring 2022 Introduction to Probability Theory Fall 2021, Spring 2021, Fall 2020, Spring 2020 Linear Algebra for Non-math Majors Spring 2021, Spring 2020, Fall 2019 Linear Algebra for Math Majors Spring 2022, Summer 2020 	
	Indiana University, Bloomington, IN, USA Teaching:	
	Pre-Calculus Math with Trigonometry Pre-Calculus Math Becitation:	Fall 2018 Fall 2017
	Calculus I Fall	2016 and Fall 2015
Mentorship	Research Experiences for Undergraduates Derived Poisson Structure on \mathfrak{sl}_2 (2 undergraduate students and 1 high school student) University of Colorado	Summer 2021
	Directed Reading Program Lie algebras (1 undergraduate student) Indiana University	Spring 2017

Honors and Awards	Glenn Schober Memorial Travel Award Indiana University	2015	
	Robert E. Weber Memorial Award2014Indiana University (given annually to the best students on written qualifying exams)		
	College of Arts and Sciences Top Up Award Indiana University	2013	
Referee for	• New York Journal of Mathematics		
Service	Organizer of Noncommutative Geometry Seminar University of Colorado	Spring 2020-present	
	Organizer of Graduate Student Poisson Seminar Indiana University	Spring 2018	
	Co-organizer of Graduate Algebra Seminar Indiana University	Fall 2015	
Languages	Chinese: Native English: Fluent French: Intermediate		