Daren Chen

Contact Information	Department of Mathematics, Caltech, 1200 East California Boulevard, Pasadena, CA 91125, USA	+1 (650) 334-9759 darenc@caltech.edu https://darenchenm.github.io/	
Employment	California Institute of Technology		
	Olga Taussky & John Todd Postdoctoral Scholar Teaching Fellow, Sep 2023 - June 2026.		
Education	Stanford University		
	Ph.D. in Mathematics, Sep 2018 - June 2023. Advisor: Ciprian Manolescu Thesis: Some variations of Khovanov homology for null homologous links in \mathbb{RP}^3		
	University of Cambridge, Trinity College		
	MMath and BA, Sep 2014 - Jun 2018.		
Preprints and Papers	1. Bar-Natan Homology for null homologous links in \mathbb{RP}^3 , preprint(2023), arXiv:2307.11461		
	2. Adiabatic compactness for holomorphic curves with boundary on hearby La- grangians (with Dylan Cant), preprint(2023), arXiv:2302.13391		
	3. Floer Lasagna modules from link Floer homology, $preprint(2022)$, $arXiv:2203.07650$		
	4. Twistings and the Alexander polynomial, $preprint(2022)$, $arXiv:2202.12489$		
	5. Generalised homomorphisms, measuring coalgebras and extended symmetries (with M. Batchelor, W. Boulton, J.Rawlinson, M.Warsi), preprint(2021), arXiv:2105.02527		
	 Khovanov-type homologies of null homologous links in ℝP³, Quantum Topology, under revision, arXiv:2104.04779 		
Talks	1. Some variations of Khovanov homology for null homologous links in \mathbb{RP}^3 , Virginia Topology Conference, June 2023		
	2. Bar-Natan homology for null homologous links in \mathbb{RP}^3 , Stanford University Topology Seminar, April 2023		
	 Khovanov-type homologies of null homologous links in ℝP³, Caltech Geometry & Topology Seminar, January 2023 		
	4. Introduction to Floer lasagna module, AMS sectional meeting, University of Utah, October 2022		
	5. [Online] Khovanov-type homologies of null homologous links in \mathbb{RP}^3 , Australian Geometric Topology Webinar, September 2022		
	6. Introduction to Floer lasagna modules, University of Hamburg, August 2022		
	 [Online] Twistings and the Alexander polynomial, Knots in Washington 49.75, April 2022 		
	8. [Online] Lasagna algebra and Floe	r lasagna module, GT GAPS, March 2022	
	9. Khovanov-type homologies of null homologous links in \mathbb{RP}^3 , GSTGC 2022 GaT-ech, March 2022		
	10. Khovanov-type homologies of null Topology Seminar, September 202	homologous links in \mathbb{RP}^3 , Stanford University	

Teaching	As a lecturer at Caltech:Ma 151a: Algebraic and differential topology. Autumn 2023		
	• Ma 151c: Algebraic and differential topology. Spring 2024		
	 As a teaching assistant at Stanford University: Math 20: Calculus. Autumn 2018 Math 51: Linear Algebra, Multivariable Calculus, and Modern Applications. Winter 2020, Winter 2021, Summer 2021, as Admin TA for Winter 2022 Math 53: Differential Equations with Linear Algebra, Fourier Methods, and Modern Applications. Spring 2023 Math 116: Complex Analysis. Autumn 2022 Math 120: Groups and Rings. Autumn 2019 Math 143: Differential Geometry. Spring 2019 		
	• Math 148: Algebraic Topology. Winter 2023		
	• Math 215A: Algebraic Topology. Autumn 2020, Autumn 2021		
Awards	Pólya Teaching Fellow Award, Stanford University, 2023		
Professional Services	Organizing committee for Kylerec 2022, 2023. Organizer of Student Topology Seminar at Stanford University during the academic year 2021-2022.		