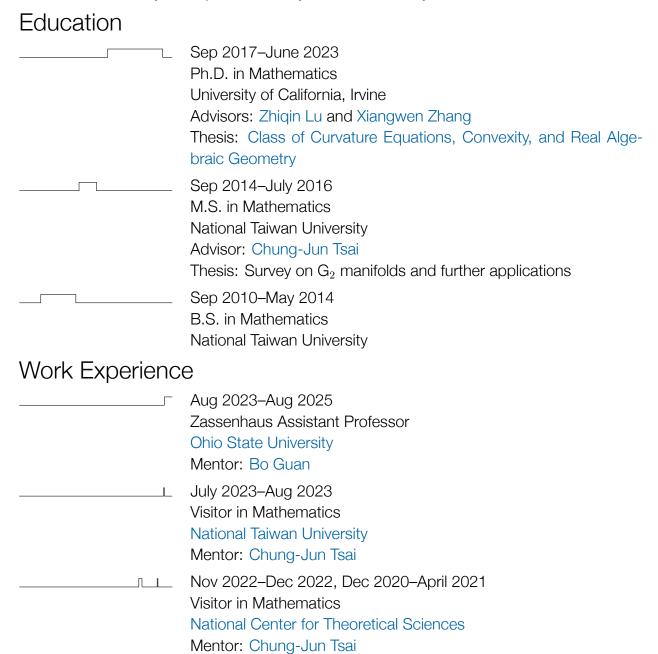
## Chao-Ming LIN

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## Interests

Differential Geometry / Complex Geometry / Geometric Analysis.



	Aug 2016-June 2017
	R.A. in Mathematics
	National Center for Theoretical Sciences
	Mentor: Chung-Jun Tsai
Papers	
	Sep 2022
	On the Convexity of General Inverse $\sigma_k$ Equations
	Journal of Functional Analysis, 2023
	https://arxiv.org/abs/2209.11370
I	Jan 2022
	The deformed Hermitian–Yang–Mills Equation, the Positivstellensatz, and the Solvability https://arxiv.org/abs/2201.01438
	Dec 2020 Deformed Hermitian-Yang-Mills equation on Compact Hermitian Manifolds
	Mathematical Research Letters, accepted (2022)
	https://arxiv.org/abs/2012.00487
Conference Talk	S
	Jul 2023
	Recent Progress in special Lagrangian Equations and deformed Hermitian–Yang–Mills Equation National Center for Theoretical Sciences https://ncts.ntu.edu.tw/events_2_detail.php?nid=404&fbclid=lwA
	R3G7E03LkoHbTDJ0vANOzckpibCvn8ZU0s237Gkmwypyv8jEbwoTLPkvwM
	Dec 2021
	Recent Developments in Complex Geometry and Geometric Analysis
	Canadian Mathematical Society Winter Meeting
	https://www2.cms.math.ca/Events/winter21/abs/rdc#cml
Invited Seminar	
	May 2023

L	Differential Geometry Seminar Ohio State University https://math.osu.edu/events/convexity-general-inverse-sigmak-e quations-and-some-applications April 2023 UCR Geometry-Topology seminar University of California, Riverside
	https://sites.google.com/view/brian-collier/ucr-geometry-topolog y-seminar Feb 2023
<u></u>	Algebraic Geometry in String Theory Seminar Center of Mathematical Sciences and Applications at Harvard University https://cmsa.fas.harvard.edu/event/agst-22423/
	Feb 2023 Informal Complex Geometry and PDE Seminar Columbia University http://math.columbia.edu/~kjs/seminar
	Jan 2023 Joint Geometric Analysis Seminar Chinese University of Hong Kong https://www.math.cuhk.edu.hk/seminars/convexity-general-inverse-k-equations-and-some-applications
	Apr 2022 The Mathematics Colloquium at Rutgers-Newark Rutgers University https://sites.rutgers.edu/chen-wan/colloquium/
	Mar 2022 Geometric Analysis Seminar Beijing International Center for Mathematical Research https://bicmr.pku.edu.cn/content/show/43-2663.html https://www.math.pku.edu.cn/teachers/jianchunchu/seminar.html
I	Feb 2022 Geometry and Topology Seminar McMaster University

	https://www.math.mcmaster.ca/news-events/events/g-1-4r0bt91 98d8j7q501kob4lbt5v_202202032030.html	
	Oct 2021 Differential Geometry Seminar University of California, Irvine https://www.math.uci.edu/node/37181	
	Dec 2022, Nov 2022, Mar 2021, Dec 2018, Apr 2017  NCTS Differential Geometry Seminar  National Center for Theoretical Sciences  https://ncts.ntu.edu.tw/events_1_detail.php?nid=2389  https://ncts.ntu.edu.tw/events_1_detail.php?nid=2367  https://ncts.ntu.edu.tw/events_1_detail.php?nid=1917  https://www.math.sinica.edu.tw/www/seminar/abstract_view.jsp ?seminar_id=2689  https://140.112.36.108/events_1_detail.php?nid=889	
	Apr 2021, Dec 2020 NCTS Postdoc Seminar on Differential Geometry National Center for Theoretical Sciences	
Teaching Experience		
	Lecturer	
L_	Summer II 2022 Math 3A Introduction to Linear Algebra	
	Teaching Assistant	
L_	Spring 2023 Math 2A Calculus	
	Winter 2019, Summer II 2018 Math 2B Calculus	
	Summer I 2021, Fall 2019 Math 3A Introduction to Linear Algebra	
	Winter 2020, Summer I 2020, Summer I 2019, Spring 2019, and Fall 2018 Math 3D Elementary Differential Equations	

	Spring 2022, Fall 2021 Math 5A Calculus for Life Sciences	
	Fall 2020 Math 5B BioCalculus	
	Fall 2020, Fall 2019 Math 118 Theory of Differential Equations	
	Winter 2022, Spring 2021, Winter 2021 Math 134B Financial Derivatives	
	Spring 2023, Spring 2021 Math 134C Financial Models	
I	Summer I 2022, Summer I 2020 Math 175 Combinatorics	
	Spring 2020 Math 205C Introduction to Graduate Analysis	
Honors and Awards		
	Spring 2021 Von Neumann Outstanding Performance as a Graduate Student Award	
L	Spring 2016 Phi Tau Phi Scholastic Honor	
I	Fall 2015 Excellent TA Award Tsai Wang-Lin Scholarship Hu Dun-Fu Scholarship	
	Fall 2011 High GPA Award Li Bung-Fung Scholarship	
Misc Experience		
	June 2018–April 2023 Treasurer of Taiwanese Graduate Student Association University of California, Irvine	

Last updated: August 01, 2023.