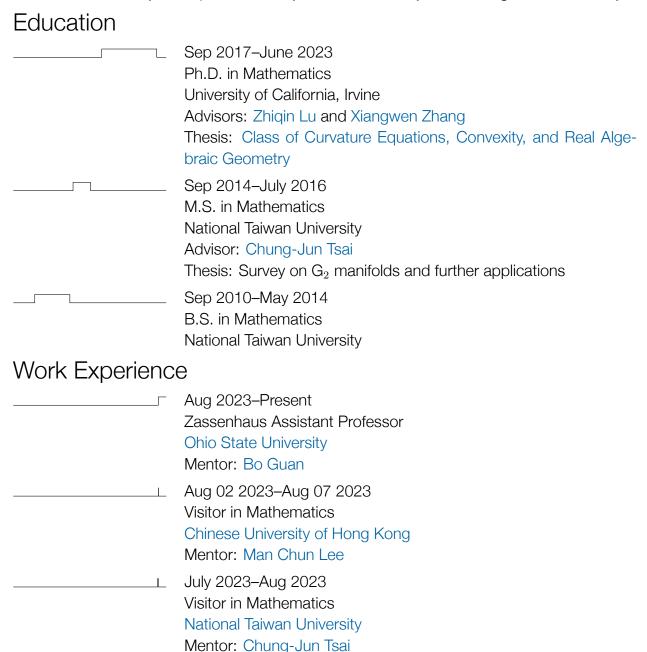
## Chao-Ming LIN

https://chaominl.github.io mailto:lin.4579@osu.edu tel:+1 949-466-2130

## Interests

Differential Geometry / Complex Geometry / Geometric Analysis / Real Algebraic Geometry.



	Nov 2022–Dec 2022, Dec 2020–April 2021
	Visitor in Mathematics
	National Center for Theoretical Sciences
	Mentor: Chung-Jun Tsai
	Aug 2016-June 2017
	R.A. in Mathematics
	National Center for Theoretical Sciences
	Mentor: Chung-Jun Tsai
Papers	
1	Sep 2022
	On the Convexity of General Inverse $\sigma_k$ Equations
	Journal of Functional Analysis, 2023
	https://arxiv.org/abs/2209.11370
1	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
	Dec 2023
	Recent Advances in Differential Geometry
	American Mathematical Society Spring Western Sectional Meeting
	https://www.ams.org/meetings/sectional/2299_program.html
ı	Dec 2023
	Geometric Analysis Session
	Canadian Mathematical Society Winter Meeting
	https://www.winter23.cms.math.ca
	·
	Jul 2023  Recent Progress in appoint Legrangian Equations and deformed
	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 R3G7E03LkoHbTDJ0vANOzckpibCvn8ZU0s237Gkmwypyv8jE bwoTLPkvwM	
	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 Talks		
	May 2023 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 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-inver se-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	
	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	
IL	Apr 2021, Dec 2020 NCTS Postdoc Seminar on Differential Geometry National Center for Theoretical Sciences	
Teaching Experience		
1	Lecturer Autumn 2023	
<u>-</u>	Math 1131 Calculus for Business	

	Summer II 2022
	Math 3A Introduction to Linear Algebra
	Teaching Assistant
	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
II	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
	Summer I 2022, Summer I 2020  Math 175 Combinatorics
ı	Spring 2020
	Math 205C Introduction to Graduate Analysis
Honors and Aw	,
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	Spring 2021 Von Neumann Outstanding Performance as a Graduate Student
	Award
	Spring 2016
	Phi Tau Phi Scholastic Honor

	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: September 10, 2023.