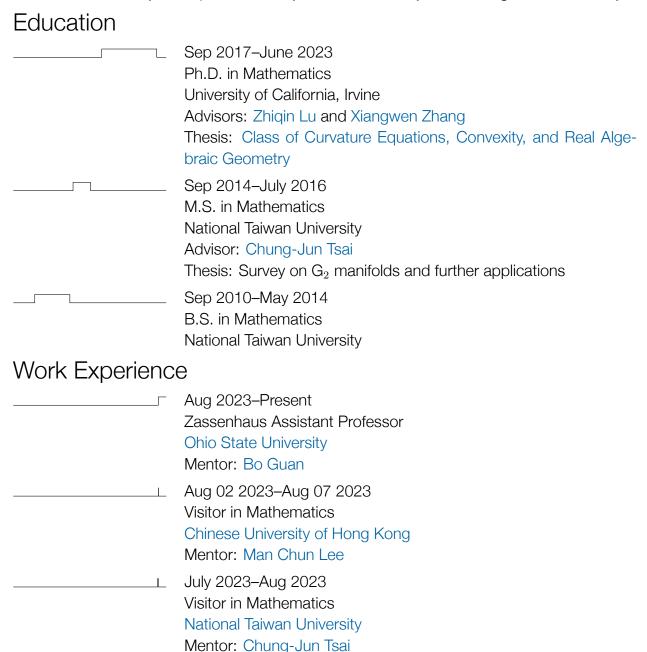
## Chao-Ming LIN

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

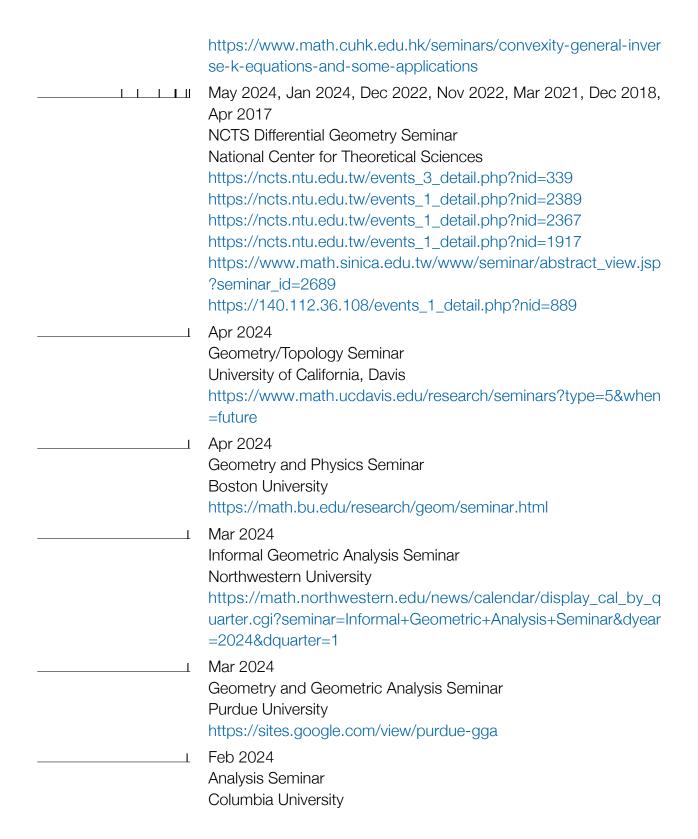
## Interests

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	
	Oct 2023
	On the Solvability of General Inverse $\sigma_k$ Equations
	https://arxiv.org/abs/2310.05339, 2023
	Sep 2022
	On the Convexity of General Inverse $\sigma_k$ Equations
	Journal of Functional Analysis, 2023
	https://arxiv.org/abs/2209.11370
	Jan 2022
	The deformed Hermitian-Yang-Mills Equation, the Positivstellen-
	satz, and the Solvability
	Advances in Mathematics, 2023
	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

Workshop and Conference Talks		
	July 2024 Geometry Crossing Singularities TIMS 2024 Summer Program in Geometry https://www.tims.ntu.edu.tw/modules/news/article.php?storyid=3 972	
	May 2024 Recent Advances in Differential Geometry American Mathematical Society Spring Western Sectional Meeting https://www.ams.org/meetings/sectional/2299_program.html https://www.ams.org/meetings/sectional/2299_program_ss15.h tml#title	
	Dec 2023 Geometric Analysis Session Canadian Mathematical Society Winter Meeting https://www.winter23.cms.math.ca https://www2.cms.math.ca/Events/winter23/sessions_scientific #ga	
	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 R3G7E03LkoHbTDJ0vANOzckpibCvn8ZU0s237Gkmwypyv8jE bwoTLPkvwM	
I	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 2024, Jan 2023 Joint Geometric Analysis Seminar Chinese University of Hong Kong	



	https://www.math.columbia.edu/~egiorgi/seminar-ga.html
	Nov 2023, Mar 2022
	Geometric Analysis Seminar
	Beijing International Center for Mathematical Research
	https://bicmr.pku.edu.cn/content/show/43-3146.html
	https://bicmr.pku.edu.cn/content/show/43-2663.html
	https://www.math.pku.edu.cn/teachers/jianchunchu/seminar.html
	May 2023
	Differential Geometry Seminar
	Ohio State University
	https://math.osu.edu/events/convexity-general-inverse-sigmak-e
	quations-and-some-applications
I	April 2023
	UCR Geometry-Topology seminar
	University of California, Riverside
	https://sites.google.com/view/brian-collier/ucr-geometry-topolog
	y-seminar
1	Feb 2023
	Algebraic Geometry in String Theory Seminar
	Center of Mathematical Sciences and Applications at Harvard Uni-
	versity
	https://cmsa.fas.harvard.edu/event/agst-22423/
	Feb 2023
	Informal Complex Geometry and PDE Seminar
	Columbia University
	http://math.columbia.edu/~kjs/seminar
	Apr 2022
	The Mathematics Colloquium at Rutgers-Newark
	Rutgers University
	https://sites.rutgers.edu/chen-wan/colloquium/
	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 Apr 2021, Dec 2020 NCTS Postdoc Seminar on Differential Geometry National Center for Theoretical Sciences
Teaching Experi	
	Lecturer
	Spring 2024 Math 1131 Calculus for Business (2 sections, 140 & 210 enrollments; mentor 2 & 3 TAs)
	Autumn 2023 Math 1131 Calculus for Business (280 enrollments; mentor 4 TAs)
	Summer II 2022 Math 3A Introduction to Linear Algebra (60 students; mentor 1 TA)
	Teaching Assistant
	Teaching Assistant Spring 2023 Math 2A Calculus
	Spring 2023
	Spring 2023 Math 2A Calculus Winter 2019, Summer II 2018
	Spring 2023 Math 2A Calculus Winter 2019, Summer II 2018 Math 2B Calculus Summer I 2021, Fall 2019
	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
	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
	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

	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
	Spring 2020 Math 205C Introduction to Graduate Analysis
Honors and Awa	ards
	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: May 9, 2024.