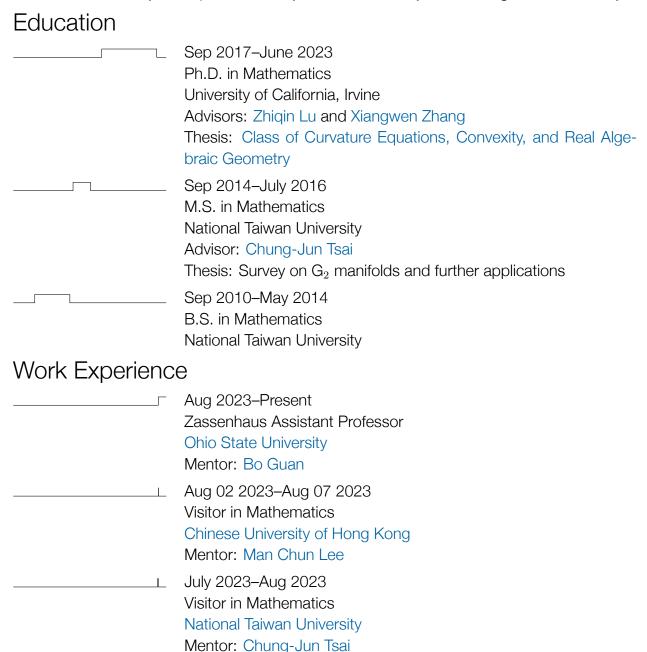
## Chao-Ming LIN

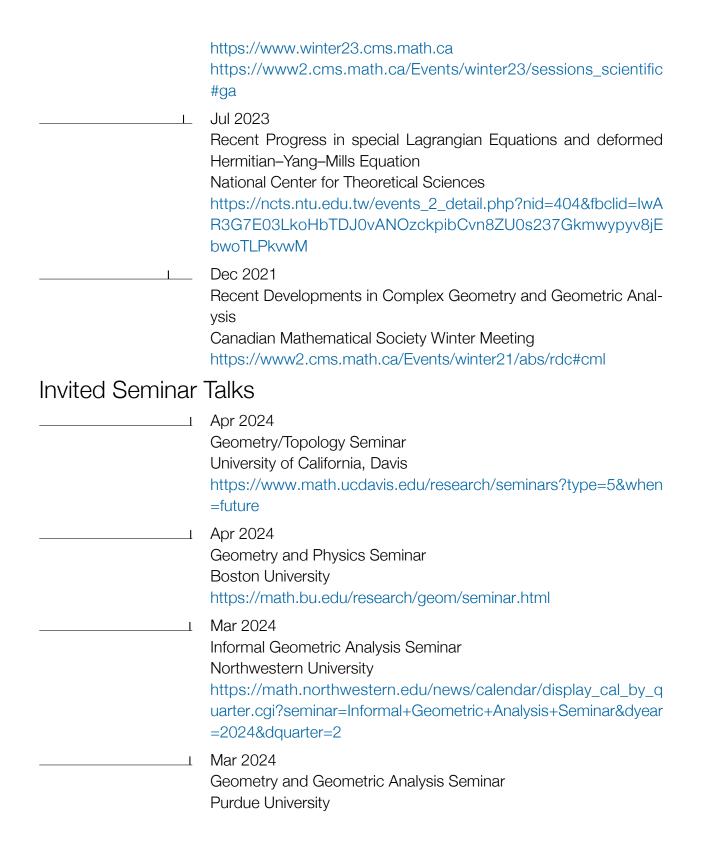
https://chaominl.github.io mailto:lin.4579@osu.edu tel:+1 949-466-2130

## 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
<b>5</b>	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
Conference Talk	SS .
	May 2024
	Recent Advances in Differential Geometry
	American Mathematical Society Spring Western Sectional Meeting
	https://www.ams.org/meetings/sectional/2299_program.html
	Dec 2023
	Geometric Analysis Session
	Canadian Mathematical Society Winter Meeting



https://sites.google.com/view/purdue-gga
 Feb 2024 Analysis Seminar Columbia University https://www.math.columbia.edu/~egiorgi/seminar-ga.html
Jan 2024, 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
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
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/	
	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 Experience		
	Lecturer	
	Spring 2024	
	Math 1131 Calculus for Business (2 sections, 140 & 210 enroll-	
	ments; mentor 2 & 3 TAs)	
1	Autumn 2023	
	Math 1131 Calculus for Business (280 enrollments; mentor 4 TAs)	
Í	Summer II 2022	
	Math 3A Introduction to Linear Algebra (60 students; mentor 1 TA)	
	Matir of thirduction to Empai Aigobia (00 stadonts, monto i 17)	

	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
I	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 Aw	ards
	Spring 2021 Von Neumann Outstanding Performance as a Graduate Student Award
I	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: February 16, 2024.