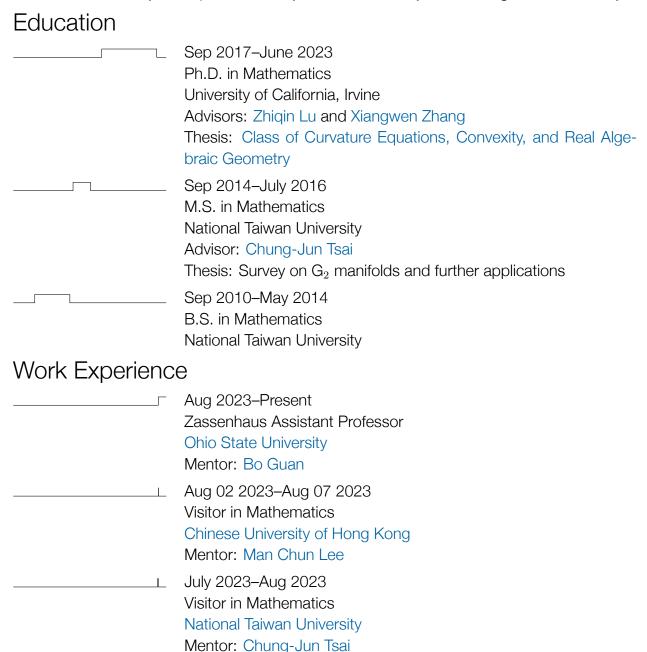
Chao-Ming LIN

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
5	Mentor: Chung-Jun Tsai
Papers	
	Oct 2023
	On the Solvability of General Inverse σ_k Equations
	https://arxiv.org/abs/2310.05339, 2023
	Sep 2022
	On the Convexity of General Inverse σ_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://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
	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
	Apr 2024
	Geometry Seminar
	University of California, Davis
	Mar 2024
	Informal Geometric Analysis Seminar Northwestern University
1	Mar 2024
	Geometry and Geometric Analysis Seminar
	Purdue University
	https://sites.google.com/view/purdue-gga
	Feb 2024
	Analysis Seminar
	Columbia University
	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	
	Autumn 2023	
	Math 1131 Calculus for Business	
	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
I	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
	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	e e e e e e e e e e e e e e e e e e e
	June 2018–April 2023 Treasurer of Taiwanese Graduate Student Association University of California, Irvine

Last updated: December 04, 2023.