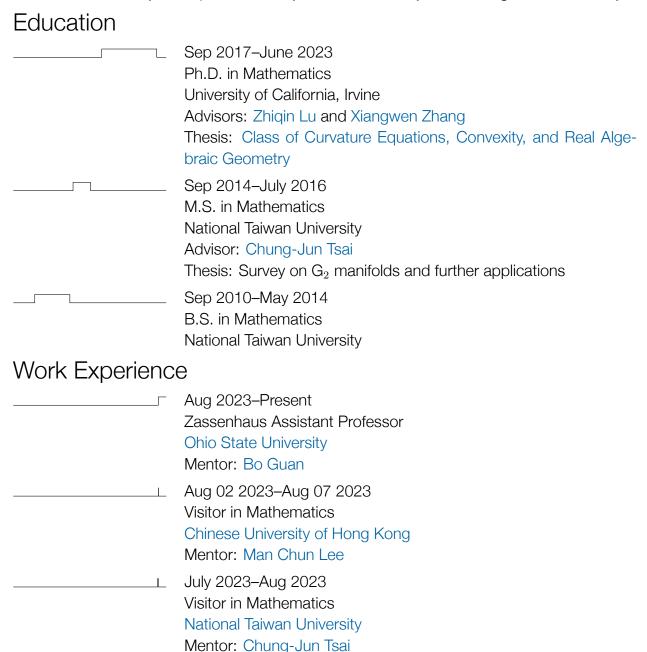
Chao-Ming LIN

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
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
	Apr 2024
	Geometry and Physics Seminar Boston University https://math.bu.edu/research/geom/seminar.html
	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
I	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/
I	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	
<u>_</u>	Autumn 2023 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
	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
	Spring 2020
	Math 205C Introduction to Graduate Analysis
Honors and Aw	ards
	Spring 2021
	Von Neumann Outstanding Performance as a Graduate Student Award
ı	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	9
	June 2018–April 2023
	Treasurer of Taiwanese Graduate Student Association

University of California, Irvine

Last updated: January 15, 2024.