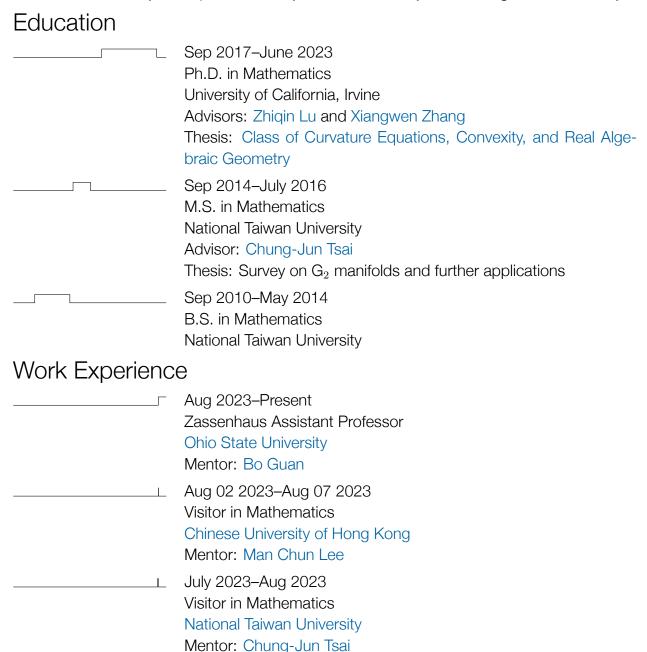
## Chao-Ming LIN

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 $\sigma_k$ 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://www.winter23.cms.math.ca
	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 Seminar University of California, Davis
	Feb 2024 Analysis Seminar Columbia University
L	Nov 2023 Geometric Analysis Seminar Beijing International Center for Mathematical Research https://www.math.pku.edu.cn/teachers/jianchunchu/seminar.html
<u> </u>	May 2023 Differential Geometry Seminar Ohio State University https://math.osu.edu/events/convexity-general-inverse-sigmak-e quations-and-some-applications
L	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-inverse-k-equations-and-some-applications
I	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 2023, 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  Apr 2021, Dec 2020  NCTS Postdoc Seminar on Differential Geometry  National Center for Theoretical Sciences
Teaching Experi	ence
	Lecturer 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 Awa	ards
	Spring 2021
	Von Neumann Outstanding Performance as a Graduate Student
	Award
L	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: October 12, 2023.