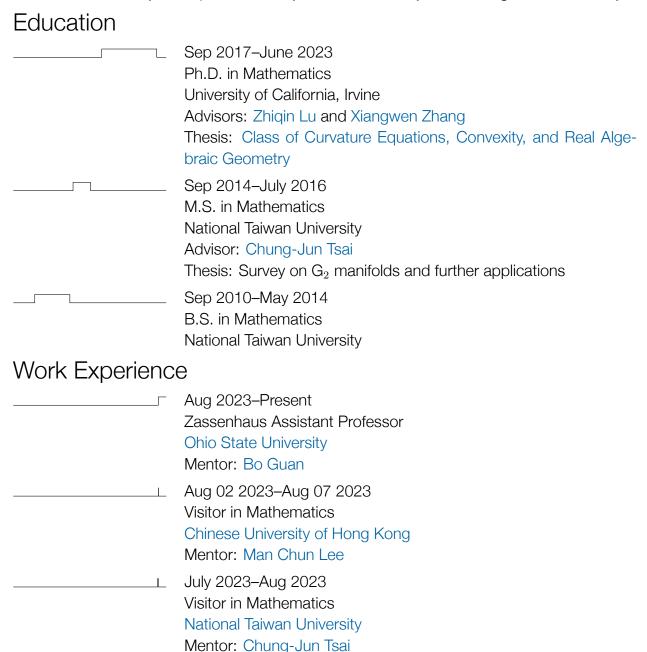
Chao-Ming LIN

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 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
	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 Uni-
	versity
	https://cmsa.fas.harvard.edu/event/agst-22423/
L	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	
I	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	
II	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 Awards		
	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: November 15, 2023.