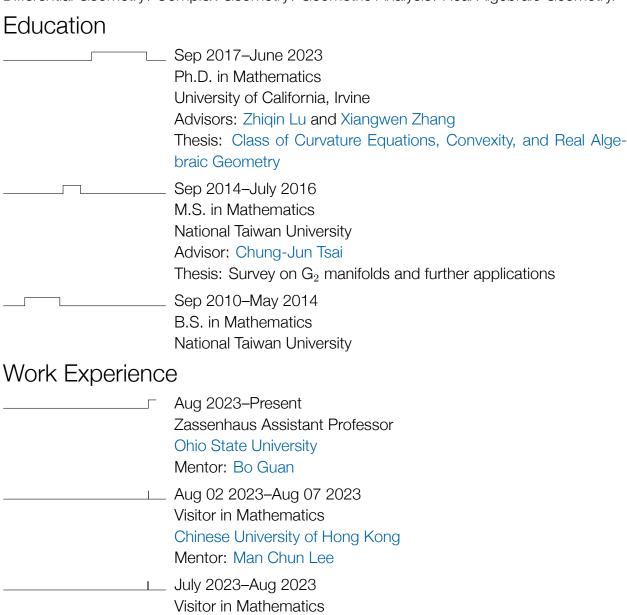
Chao-Ming LIN

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

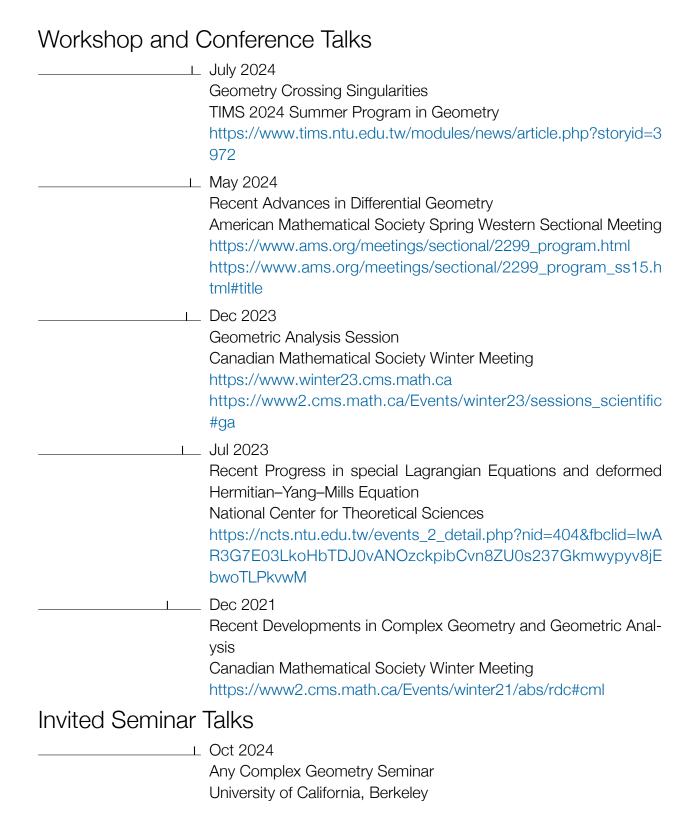
Interests

Differential Geometry / Complex Geometry / Geometric Analysis / Real Algebraic Geometry.



National Taiwan University Mentor: Chung-Jun Tsai

	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
	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 Positivstellensatz, 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



Oct 2024 Geometry, Topology, and Analysis Seminar Wichita State University https://sites.google.com/site/wsugeometrytopologyseminar/ May 2024, 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
May 2024, 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_3_detail.php?nid=339 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 2024 Geometry/Topology Seminar University of California, Davis https://www.math.ucdavis.edu/research/seminars?type=5&when =future
 Apr 2024 Geometry and Physics Seminar Boston University https://math.bu.edu/research/geom/seminar.html
Mar 2024 Informal Geometric Analysis Seminar Northwestern University https://math.northwestern.edu/news/calendar/display_cal_by_q uarter.cgi?seminar=Informal+Geometric+Analysis+Seminar&dyear =2024&dquarter=1

	Mar 2024 Geometry and Geometric Analysis Seminar Purdue University https://sites.google.com/view/purdue-gga
	Feb 2024 Analysis Seminar Columbia University https://www.math.columbia.edu/~egiorgi/seminar-ga.html
	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
<u> </u>	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
	Apr 2022 The Mathematics Colloquium at Rutgers-Newark

	Rutgers University https://sites.rutgers.edu/chen-wan/colloquium/
ı	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 Experi	ence
	Lecturer
	Autumn 2024
	Math 2174 Linear Algebra and Differential Equations for Engineers (2 sections, 60 & 60 enrollments)
	Spring 2024
	Math 1131 Calculus for Business (2 sections, 140 & 210 enrollments; mentor 2 & 3 TAs)
	Autumn 2023
	Math 1131 Calculus for Business (280 enrollments; mentor 4 TAs)
	Summer II 2022
	Math 3A Introduction to Linear Algebra (60 students; mentor 1 TA)
	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	
11	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		
	Jan 2025	
	ICCM Best Thesis Award, Gold Medal	
	July 2024	
	AMS-Simons Travel Grants	
	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 01, 2024.