Chao-Ming LIN

https://www.math.uci.edu/~chaominl/ mailto:chaominl@uci.edu tel:+1 949-466-2130

Interests

Differential Geometry / Complex Geometry / Geometric Analysis.

Education	
	Sep 2017–June 2023 (expected) Ph.D. Candidate in Mathematics
	University of California, Irvine
	Advisors: Zhiqin Lu and Xiangwen Zhang
	Sep 2014–July 2016
	M.S. in Mathematics
	National Taiwan University
	Advisor: Chung-Jun Tsai
	Sep 2010–May 2014
	B.S. in Mathematics
	National Taiwan University
Work Experience	e
	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	
L	Sep 2022
	On the Convexity of General Inverse σ_k Equations,
	Journal of Functional Analysis, accepted (2023)
	https://arxiv.org/abs/2209.11370
L	Jan 2022
	The deformed Hermitian-Yang-Mills Equation, the Positivstellen-

	satz, and the Solvability 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	S
L	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
	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
L	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/
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 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 Experience

	Lecturer	
	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	
	, ,	
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
<u> </u>	Fall 2015 Excellent TA Award Tsai Wang-Lin Scholarship Hu Dun-Fu Scholarship
	Fall 2011 High GPA Award Li Bung-Fung Scholarship
Misc Experience	Э
	June 2018–April 2023 Treasurer of Taiwanese Graduate Student Association University of California, Irvine

Last updated: May 09, 2023.