## Chao-Ming LIN

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## 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 $\sigma_k$ 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	KS .
	Dec 2021
	Recent Developments in Complex Geometry and Geometric Anal-
	ysis
	Canadian Mathematical Society Winter Meeting
	https://www2.cms.math.ca/Events/winter21/abs/rdc#cml
Invited Seminar	Talks
	May 2023
	Ohio State University
	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/
1	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	
ı		
	Apr 2022 The Mathematics Colloquium at Rutgers-Newark	
	Rutgers University	
	https://sites.rutgers.edu/chen-wan/colloquium/	
ı	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	
I	Apr 2021, Dec 2020 NCTS Postdoc Seminar on Differential Geometry	
	National Center for Theoretical Sciences	
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Teaching Experience		
	Lecturer	
L	Summer II 2022	

## Math 3A Introduction to Linear Algebra

	Teaching Assistant	
I	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	
<u> </u>	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	е
	June 2018–April 2023
	Treasurer of Taiwanese Graduate Student Association
	University of California, Irvine

Last updated: May 09, 2023.