## 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	ce
	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	
	Sep 2022
	On the Convexity of General Inverse $\sigma_k$ Equations
	https://arxiv.org/abs/2209.11370
	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
	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/
	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
1	Apr 2022
	The Mathematics Colloquium at Rutgers-Newark
	Rutgers University
	https://sites.rutgers.edu/chen-wan/colloquium/
ĺ	Mar 2022
	Geometric Analysis Seminar
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	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	
	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 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
IL_	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 2021 Math 134C Financial Models
	Summer I 2022, Summer I 2020 Math 175 Combinatorics
	Spring 2020 Math 205C Introduction to Graduate Analysis
Honors and Aw	ards
	Spring 2021
	Von Neumann Outstanding Performance as a Graduate Student Award
	Spring 2016 Phi Tau Phi Scholastic Honor
I	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-present
	Treasurer of Taiwanese Graduate Student Association

## University of California, Irvine

Last updated: March 20, 2023.