## Chao-Ming LIN

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## Interests

Differential Geometry / Complex Geometry / Geometric Analysis.

Education	
	Sep 2017–May 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
	Dec 2020–April 2021, Aug 2016–June 2017 R.A. in Mathematics National Center for Theoretical Sciences Advisor: 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 Positivstellensatz, 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	SS .
	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 2022 The Mathematics Colloquium at Rutgers-Newark Rutgers University https://sites.rutgers.edu/chen-wan/colloquium/
L	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
	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=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 Exper	ience
	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
	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
ı	Spring 2020
	Math 205C Introduction to Graduate Analysis
Honors and Aw	vards
	Spring 2021
<u> </u>	Von Neumann Outstanding Performance as a Graduate Student
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	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	e
	June 2018-present
	Treasurer of Taiwanese Graduate Student Association
	University of California-Irvine

Last updated: September 26, 2022.