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-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
Л	Nov 2022-Dec 2022, Dec 2020-April 2021
	Visitor in Mathematics
	National Center for Theoretical Sciences
	Advisor: Chung-Jun Tsai
	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 σ_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
	Feb 2023
	Algebraic Geometry in String Theory Seminar
	Center Of Mathematical Sciences And Applications at Harvard Uni-
	versity
	https://cmsa.fas.harvard.edu/event_category/algebraic-geometr
	y-in-string-theory/
	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 College in the Putgers Newsyle
	The Mathematics Colloquium at Rutgers-Newark Rutgers University
	https://sites.rutgers.edu/chen-wan/colloquium/
1	Mar 2022
	Geometric Analysis Seminar
	Beijing International Center for Mathematical Research
	Doging international Contor for Mathernatical Nescarch

	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 Exper	ience
	Lecturer
	Summer II 2022
	Math 3A Introduction to Linear Algebra
	Ç .
	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 2D Flomonton, Differential Equations		
IL_	Math 3D Elementary Differential Equations Spring 2022, Fall 2021		
<u></u>	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		
L	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		
	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-present		
	Treasurer of Taiwanese Graduate Student Association		
	University of California, Irvine		

Last updated: February 21, 2023.