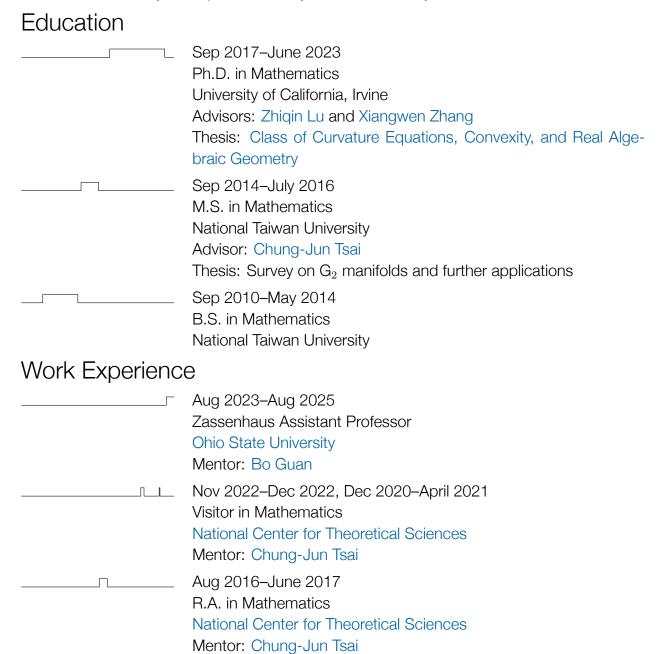
## Chao-Ming LIN

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

## Interests

Differential Geometry / Complex Geometry / Geometric Analysis.



Papers	
	Sep 2022
	On the Convexity of General Inverse $\sigma_k$ Equations
	Journal of Functional Analysis, 2023
	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	<b>KS</b>
	Jul 2023
	Recent Progress in special Lagrangian Equations and deformed Hermitian–Yang–Mills Equation National Center for Theoretical Sciences https://ncts.ntu.edu.tw/events_2_detail.php?nid=404&fbclid=lwA
	R3G7E03LkoHbTDJ0vANOzckpibCvn8ZU0s237Gkmwypyv8jE bwoTLPkvwM
	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	
	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 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/
I	Feb 2023 Informal Complex Geometry and PDE Seminar Columbia University http://math.columbia.edu/~kjs/seminar
I	Jan 2023 Joint Geometric Analysis Seminar Chinese University of Hong Kong https://www.math.cuhk.edu.hk/seminars/convexity-general-inverse-k-equations-and-some-applications
<u> </u>	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	
	<b>Teaching Assistant</b> Spring 2023	
	-	
	Spring 2023	
L_	Spring 2023 Math 2A Calculus	
	Spring 2023 Math 2A Calculus Winter 2019, Summer II 2018	
	Spring 2023 Math 2A Calculus Winter 2019, Summer II 2018 Math 2B Calculus	
	Spring 2023 Math 2A Calculus Winter 2019, Summer II 2018 Math 2B Calculus Summer I 2021, Fall 2019	
	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	
	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	
	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	
	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 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	
	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	

	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 Awa	ards
	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	9
	June 2018–April 2023
	Treasurer of Taiwanese Graduate Student Association
	University of California, Irvine

Last updated: June 25, 2023.