

Chao-Ming LIN

<https://www.math.uci.edu/~chaomin/>

<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

- 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 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 Talks

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

Feb 2023

Center Of Mathematical Sciences And Applications at Harvard University

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-inverse-k-equations-and-some-applications>

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-1-4r0bt9198d8j7q501kob4lbt5v_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

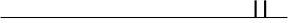

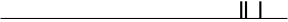


Teaching Experience

Lecturer

_____	Summer II 2022 Math 3A Introduction to Linear Algebra
-------	--

Teaching Assistant


_____	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
	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: January 18, 2023.