

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

Dec 2020–April 2021

R.A. 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

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 Hermi-

tion Manifolds

<https://arxiv.org/abs/2012.00487>

Invited 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

_____ | Oct 2021
Differential Geometry Seminar
University of California-Irvine
<https://www.math.uci.edu/node/37181>

_____ | | Mar 2021, Apr 2017
NCTS Differential Geometry Seminar
National Center for Theoretical Sciences
https://ncts.ntu.edu.tw/events_1_detail.php?nid=1917
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

_____ | Dec 2018
NCTS Seminar on Complex Geometry
National Center for Theoretical Sciences
https://www.math.sinica.edu.tw/www/seminar/abstract_view.jsp?seminar_id=2689

Teaching Experience

_____ || 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
	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 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

Last updated: January 18, 2022.