

# 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, 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 Hermitian Manifolds*  
<https://arxiv.org/abs/2012.00487>

## Invited Talks

_____ I _____	Dec 2021 Recent Developments in Complex Geometry and Geometric Analysis Canadian Mathematical Society Winter Meeting <a href="https://www2.cms.math.ca/Events/winter21/abs/rdc#cml">https://www2.cms.math.ca/Events/winter21/abs/rdc#cml</a>
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## Invited Seminar Talks

_____ I _____	Oct 2021 Differential Geometry Seminar University of California-Irvine <a href="https://www.math.uci.edu/node/37181">https://www.math.uci.edu/node/37181</a>
_____ I I I _____	Mar 2021, Dec 2018, Apr 2017 NCTS Differential Geometry Seminar National Center for Theoretical Sciences <a href="https://ncts.ntu.edu.tw/events_1_detail.php?nid=1917">https://ncts.ntu.edu.tw/events_1_detail.php?nid=1917</a> <a href="https://www.math.sinica.edu.tw/www/seminar/abstract_view.jsp?seminar_id=2689">https://www.math.sinica.edu.tw/www/seminar/abstract_view.jsp?seminar_id=2689</a> <a href="https://140.112.36.108/events_1_detail.php?nid=889">https://140.112.36.108/events_1_detail.php?nid=889</a>
_____ II _____	Apr 2021, Dec 2020 NCTS Postdoc Seminar on Differential Geometry National Center for Theoretical Sciences

## Teaching Experience

_____ II _____	Winter 2019, Summer II 2018 Math 2B Calculus
_____ I I _____	Summer I 2021, Fall 2019 Math 3A Introduction to Linear Algebra
_____ IIII _____	Winter 2020, Summer I 2020, Summer I 2019, Spring 2019, and Fall 2018 Math 3D Elementary Differential Equations
_____ I _____	Fall 2021 Math 5A Calculus for Life Sciences
_____ I _____	Fall 2020 Math 5B BioCalculus
_____ I I _____	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.