

# 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>

## Conference Talks

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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

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Mar 2022  
Geometric Analysis Seminar  
Beijing International Center for Mathematical Research  
<https://www.math.pku.edu.cn/teachers/jianchunchu/seminar.html>

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Mar 2022  
Geometry and Topology Seminar  
Wichita State University

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Feb 2022  
Geometry and Topology Seminar  
McMaster University  
[https://www.math.mcmaster.ca/news-events/events/g-1-4r0bt9198d8j7q501kob4lbt5v\\_202202032030.html](https://www.math.mcmaster.ca/news-events/events/g-1-4r0bt9198d8j7q501kob4lbt5v_202202032030.html)

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

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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=1917](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://www.math.sinica.edu.tw/www/seminar/abstract_view.jsp?seminar_id=2689)  
[https://140.112.36.108/events\\_1\\_detail.php?nid=889](https://140.112.36.108/events_1_detail.php?nid=889)

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Apr 2021, Dec 2020  
NCTS Postdoc Seminar on Differential Geometry  
National Center for Theoretical Sciences

## Teaching Experience

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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

## Misc Experience

\_\_\_\_\_ June 2018–present  
Treasurer of Taiwanese Graduate Student Association  
University of California-Irvine

Last updated: January 29, 2022.