Chao-Ming LIN

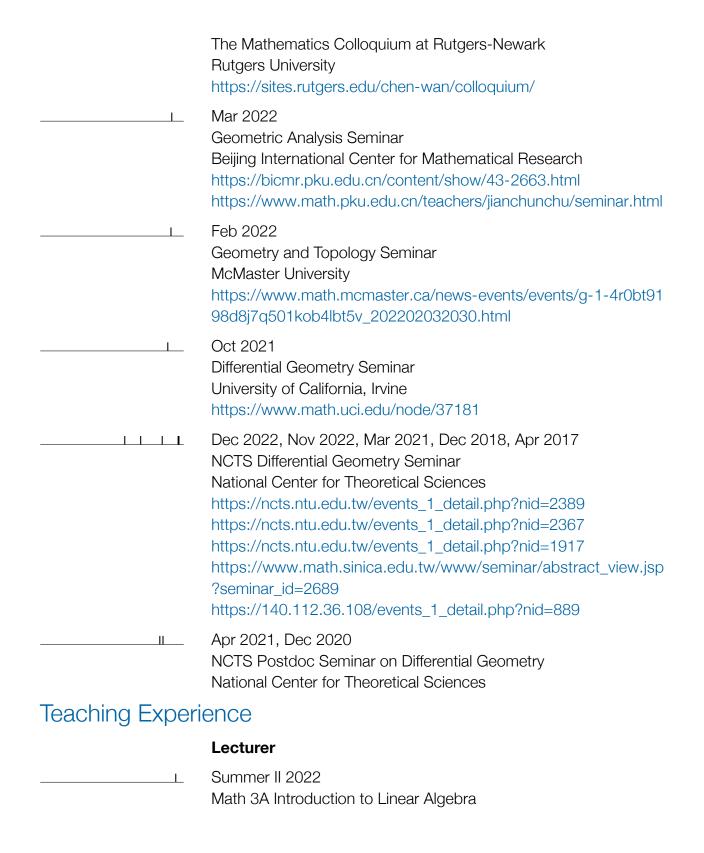
https://www.math.uci.edu/~chaominl/ mailto:chaominl@uci.edu tel:+1 949-466-2130

Interests

Differential Geometry / Complex Geometry / Geometric Analysis.

| Education | |
|-----------------|--|
| | Sep 2017-June 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 | ce |
| | Nov 2022-Dec 2022, Dec 2020-April 2021 |
| | Visitor in Mathematics |
| | National Center for Theoretical Sciences |
| | Mentor: Chung-Jun Tsai |
| | Aug 2016-June 2017 |
| | R.A. in Mathematics |
| | National Center for Theoretical Sciences |
| | Mentor: 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 Positivstellen- satz, 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 | KS |
| | 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 | Talks |
| | May 2023 |
| | Ohio State University |
| | 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/ |
| | 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-inver |
| | se-k-equations-and-some-applications |
| | Apr 2022 |



| | Teaching Assistant | |
|-------------------|---|--|
| | Spring 2023 | |
| | Math 2A Calculus | |
| | Winter 2019, Summer II 2018 Math 2B Calculus | |
| 1 1 | 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 | |
| IL_ | 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 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 Awards | | |
| | Spring 2021 Von Neumann Outstanding Performance as a Graduate Student Award | |
| | Spring 2016 Phi Tau Phi Scholastic Honor | |
| I | Fall 2015 | |
| | Excellent TA Award | |

| | Tsai Wang-Lin Scholarship Hu Dun-Fu Scholarship |
|-----------------|---|
| | Fall 2011 High GPA Award Li Bung-Fung Scholarship |
| Misc Experience | Э |
| | June 2018–April 2023 Treasurer of Taiwanese Graduate Student Association University of California, Irvine |

Last updated: April 22, 2023.