

Ming Hsiao

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EDUCATION

Research Assistant <i>Mentor: Professor Yng-Ing Lee</i>	Aug 2025 - Jan 2026
NCTS	
Master of Science (M.S.) in Mathematics <i>Supervisor: Professor Yng-Ing Lee</i>	Sep 2023 - Jun 2025
National Taiwan University	
Bachelor of Science (B.S.) in Mathematics	Sep 2019 - Jun 2023
National Taiwan University	

HONOR

Dean's Award of College of Science <i>Master</i>	May 2025
National Taiwan University	
Chow Hung-Ching Scholarship	Sec 2024 - Jun 2025
Hu Dun Fu Memorial Scholarship	Mar 2024 - Jun 2024
Undergraduates Student Outstanding Thesis Award <i>High Distinction Award</i>	2024
The Mathematical Society of the Republic of China	
Dean's Award of College of Science <i>Bachelor</i>	Jun 2023
National Taiwan University	
Academic Achievement Award	Sep 2021 - Jun 2023
National Taiwan University	
60th International Mathematical Olympiad <i>Bronze Medal</i>	Jul 2019

PREPRINT

- 1 **Rotationally symmetric Ricci Flow on \mathbb{R}^{n+1}** , arXiv: 2505.23157. [\[arXiv\]](#)
- 2 (with [M.-C. Lee](#)) **Gap Theorem on locally conformally flat manifold**, arXiv: 2504.08189. [\[arXiv\]](#)
- 3 (with [H.-W. Huang](#)) **Limiting Spectral Distributions of Hadamard Products of GUE matrices**, preprint.

TALK AND POSTERS

NCTS Differential Geometry Seminar NCTS <i>Invited speaker</i>	Apr 2025
Gap Theorem on Locally Conformally Flat Manifold	
Graduate Student Seminar SLMath Institute <i>Invited speaker</i>	Oct 2024
Preservation of Killing Vector Fields under Ricci Flow	
TMS Annual Meeting NCCU <i>Special session speaker</i>	Jan 2024
Analysis and Optimization- Hadamard product of random matrices and their limiting spectral distributions	
2023 NCTS-Kyoto Mathematics Symposium NCTS <i>Poster presentation</i>	Dec 2023
2023 NCTS-Kyoto Mathematics Symposium	
2023 Symposium for Young Analysts NCTS <i>Invited speaker</i>	Jun 2023
Limit Theorem of Hadamard Product Random Matrices	

ACADEMIC EXPERIENCE

CUHK <i>Visiting Professor: Man-Chun Lee</i>	Dec 2024
SLMath <i>New Frontiers in Curvature: Flows, General Relativity, Minimal Submanifolds, and Symmetry</i>	Aug 2024 - Nov 2024
• NCTS Research Abroad Program Mentor: Professor Peter Topping	
SMS <i>Summer school</i>	Jun 2024
• Flows and Variational Methods in Riemannian and Complex Geometry: Classical and Modern Methods	
NTU <i>Graduate Research Program</i>	Aug 2023 - Present
• Topic: Ricci Flow on Riemannian Manifolds/ Advisor: Prof. Yng-Ing Lee	
NTU <i>Teaching Assistant (TA) of Geometry 2 (Honor Program)</i>	Feb 2025 - Jun 2025
NTU <i>Teaching Assistant (TA) of Differential Geometry 2</i>	Feb 2025 - Jun 2025

NCTS <i>Teaching Assistant (TA) of Differential Forms in Algebraic Topology</i>	Feb 2024 - Jun 2024
NTU <i>Teaching Assistant (TA) of Functional Analysis 2</i>	Feb 2024 - Jun 2024
NTU <i>Teaching Assistant (TA) of Introduction of Geometry</i>	Sep 2023 - Dec 2023
64th International Mathematical Olympiad <i>2023 IMO Taiwan team Observer A</i>	Jul 2023
NTU <i>Teaching Assistant (TA) of Geometry (Honor Program)</i>	Sep 2022 - Dec 2022
National Science and Technology Council <i>National Science Council Research Scholarship, TW</i>	Mar 2022 - Mar 2023
<ul style="list-style-type: none"> • Topic: Free Probability and Hadamard Random Matrix/ Advisor: Prof. Hao-Wei Huan 	
NCTS <i>Undergraduate Research Program</i>	Oct 2021 - Jun 2022
<ul style="list-style-type: none"> • Topic: Free Probability and Hadamard Random Matrix/ Advisor: Prof. Hao-Wei Huang 	
NCTS <i>Undergraduate Summer Research Program</i>	Jul 2021 - Aug 2021
<ul style="list-style-type: none"> • Topic: Free Probability and Hadamard Random Matrix/ Advisor: Prof. Hao-Wei Huang 	