

Hung-Chun Tsui

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Research Interests

Function Field Arithmetic

Multiple Zeta Values and Multiple Eisenstein Series in Positive Characteristic

Education

PhD in Mathematics	National Tsing Hua University (Direct admission)	Feb. 2025–Present
BS in Mathematics	National Tsing Hua University (Graduated with distinction)	Sep. 2021–Dec. 2024

Publications and Preprints

Preprints

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| (1) On Multiple Eisenstein Series in Positive Characteristic: Direct Sum Result
[PDF arXiv]
arXiv: 2609.18777, 2026. | Chieh-Yu Chang, Song-Yun Chen,
Fei-Jun Huang, and Hung-Chun Tsui |
| (2) On u -Multiple Zeta Values in Positive Characteristic
[PDF arXiv]
arXiv: 2604.03618, 2026. | Hung-Chun Tsui |
| (3) Algebra Structures of Multiple Eisenstein Series in Positive Characteristic
[PDF arXiv]
arXiv: 2603.10376, 2026. | Ting-Wei Chang, Song-Yun Chen,
Fei-Jun Huang, and Hung-Chun Tsui |
| (4) On q -Shuffle Relations for Multiple Eisenstein Series of Arbitrary Rank in Positive Characteristic
[PDF arXiv]
arXiv: 2504.18879, 2025. | Ting-Wei Chang, Song-Yun Chen,
Fei-Jun Huang, and Hung-Chun Tsui |
| (5) Uniqueness of v -adic Gamma Functions in Gross–Koblitz-Type Formulas over Function Fields
[PDF arXiv]
arXiv: 2504.15697, 2025. | Ting-Wei Chang and Hung-Chun Tsui |

Academic Visits

Tohoku University Sendai, Japan · Supported by Japan–Taiwan Exchange Association	2026/7/2 – 2026/8/30
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Presentations

Recent Developments on Multiple Eisenstein Series in Positive Characteristic [slides] Tohoku University Number Theory Seminar, Tohoku University, Sendai, Japan	2026/7/6
Derivations of Multiple Zeta Values in Positive Characteristic Workshop on Arithmetic of Function Fields, National Cheng Kung University, Tainan,	2026/6/12

Taiwan

On Finite Multiple Harmonic u-series over Function Field [slides] Nagoya-Kansai Zeta Workshop for Young Researchers, Nagoya University, Nagoya, Japan	2026/2/8
On u-analogues of Multiple Zeta Values and a Possible Formulation of Kaneko–Zagier Conjecture over Function Field Various Aspects of Multiple Zeta Values, Kyoto University, Kyoto, Japan	2025/9/30
On q-shuffle Relations for Multiple Eisenstein Series in Positive Characteristic [slides] Japan-Taiwan Number Theory Conference, Kyukamura Shikanoshima, Fukuoka, Japan	2025/9/3
On the Uniqueness of v-adic Gamma Functions in the Gross–Koblitz–Thakur Formulas NTHU Workshop on Number Theory, National Tsing Hua University, Hsinchu, Taiwan	2025/4/17

Honors and Awards

Taiwan–Japan Young Scientific Talent Exchange Program Japan–Taiwan Exchange Association	2026
NSTC Graduate Research Fellowship National Science and Technology Council	2025
Chow Hung-Ching Scholarship Academia Sinica	2024
TMS Outstanding Students Prize Taiwan Mathematical Society	2024

Conferences and Workshops

The 33rd Number Theory Summer School: Arithmetic of Function Fields Yataro, Nagasaki, Japan	2026/8/24 – 2026/8/28
The 72nd Kansai Multiple Zeta Workshop Tohoku University, Sendai, Japan	2026/7/18
The 25th Sendai–Hiroshima Number Theory Conference Tohoku University, Sendai, Japan	2026/7/7 – 2026/7/10
Workshop on Arithmetic of Function Fields (Speaker) National Cheng Kung University, Tainan, Taiwan	2026/6/11 – 2026/6/12
Nagoya-Kansai Zeta Workshop for Young Researchers (Speaker) Nagoya University, Nagoya, Japan	2026/2/8 – 2026/2/11
The 61st TMS Annual Meeting National Chung Cheng University, Chiayi, Taiwan	2026/1/21 – 2026/1/22
2025 Taipei Conference on Arithmetic Geometry Academia Sinica, Taipei, Taiwan	2025/12/15 – 2025/12/19
Various Aspects of Multiple Zeta Values (Speaker) Kyoto University, Kyoto, Japan	2025/9/29 – 2025/10/3
Japan-Taiwan Number Theory Conference (Speaker) Kyukamura Shikanoshima, Fukuoka, Japan	2025/9/1 – 2025/9/5
The 11th East Asia Number Theory Conference National Taiwan University, Taipei, Taiwan	2025/8/25 – 2025/8/29
Iwasawa 2025 National Taiwan University, Taipei, Taiwan	2025/6/30 – 2025/7/4

Iwasawa Theory Taipei Summer School National Taiwan University, Taipei, Taiwan	2025/6/25 – 2025/6/27
NTHU Workshop on Number Theory National Tsing Hua University, Hsinchu, Taiwan	2025/4/17
The 17th MSJ-SI Developments of Multiple Zeta Values, Week 2 Kindai University, Osaka, Japan	2025/2/17 – 2025/2/22
The 17th MSJ-SI Developments of Multiple Zeta Values, Week 1 Kyushu University Nishijin Plaza, Fukuoka, Japan	2025/2/10 – 2025/2/15
The 60th TMS Annual Meeting National Central University, Taoyuan, Taiwan	2025/1/14 – 2025/1/15
Introduction to Nevanlinna Theory, Hyperbolicity and Arithmetic Dynamic Academia Sinica, Taipei, Taiwan	2025/1/2 – 2025/1/3
The 59th TMS Annual Meeting National Chengchi University, Taipei, Taiwan	2024/1/22 – 2024/1/23
The 58th TMS Annual Meeting National Tsing Hua University, Hsinchu, Taiwan	2023/1/16 – 2023/1/17

Teaching Experience

National Tsing Hua University

MATH5410 Modern Algebra I	Teaching Assistant	Fall 2026
MATH5640 Algebraic Geometry	Teaching Assistant	Fall 2026
MATH1000 Precalculus	Teaching Assistant	Fall 2026
MATH2410 Algebra I	Teaching Assistant	Fall 2025
MATH2420 Algebra II	Teaching Assistant	Spring 2026
MATH2870 Discrete Mathematics	Teaching Assistant	Spring 2026
MATH3450 Cryptography	Teaching Assistant	Fall 2025
MATH1410 Linear Algebra I	Teaching Assistant	Fall 2024
MATH1420 Linear Algebra II	Teaching Assistant	Spring 2025
MATH3050 Complex Analysis	Teaching Assistant	Spring 2025
MATH2010 Advanced Calculus I	Teaching Assistant	Fall 2023
MATH2020 Advanced Calculus II	Teaching Assistant	Spring 2024

Personal Information

Languages	Mandarin (Native) English (CEFR C1) Japanese (CEFR A1)
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