You-Cheng Chou
Curriculum Vitae

PERSONAL DETAILS

Phone	+886 907445039
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EDUCATION

Ph.D. in Mathematics   2017-2022
University of Utah

Bachelor of Science in Mathematics   2010-2014
National Taiwan University

WORK EXPERIENCE

Postdoc   July. 2022-Now
Academia Sinica

Research Assistant   Mar. 2016-June. 2017
Taida Institute for Mathemetical Science (TIMS)

Military Service   Dec. 2014-Nov. 2015
One year mandatory service

Research Assistant   July. 2014-Nov. 2014
Taida Institute for Mathemetical Science

TEACHING EXPERIENCE

Math 1090 Business Algebra (Instructor)   2022 Spring

Math 1090 Business Algebra (Instructor)   2021 Fall

Math 1060 Trigonometry (Instructor)   2020 Fall

Math 1060 Trigonometry (Instructor)   2020 Spring

Math 1090 Business Algebra (Instructor)   2019 Fall

Math 1060 Trigonometry (Instructor)	2018 Fall
Math 2250 Diff Equation and Linear Algebra (TA)	2018 Spring
Math 1210 Calculus I (TA)	2017 Fall

AWARDS

Gold Medal of NWMA (New World Mathematics Award) for Bachelor thesis	2014
Dean's award in National Taiwan University	2014
Honorable Mention of Shing-Tung Yau College Student Mathematics Contest (Team)	2013

INVITED SEMINAR TALK

Concerto in quantum K theory, IASM   July 2023
   Topic: Quantum K-invariants = Gopakumar-Vafa invariants on Calabi-Yau
       threefolds at genus zero

Calabi-Yau with small parameters, TIMS   June 2023
   Topic: BCOV conjectures on quintic 3-folds

FRAGMENT seminar, Colorado State University   2019
   Topic: Virasoro constraints for moduli of weighted pointed stable curves

RESEARCH ARTICLES

[1] *Higher Genus Quantum K-theory*, with Leo Herr and Y.-P. Lee
    submitted, arXiv:2305.10137 (2023)

[2] *Quantum K-theory and Gopakumar-Vafa Invariants II: Calabi-Yau Threefolds at genus zero*, with Y.-P. Lee
    submitted, arXiv:2305.08480 (2023)

[3] *Quantum K-theory and Gopakumar-Vafa Invariants I: The Quintic Threefold*, with Y.-P. Lee
    submitted, arXiv:2211.00788 (2022)

[4] *The Log Product Formula in quantum K-theory* with Leo Herr and Y.-P. Lee
    Mathematical Proceedings of the Cambridge Philosophical Society (2023), arXiv:2012.09379 (2020)

[5] *Virasoro constraints for moduli of weighted pointed stable curves*, with Y.-P. Lee
Journal of the London Mathematical Society (2022), arXiv:1908.09027 (2019)

[6] *Generalized Lamé equation with finite monodromy*
Bachelor Thesis, arXiv:1611.06643 (2016)

PARTICIPATION

Department Seminars in Algebraic Geometry in University of Utah
<div align="right">Fall 2018-Spring 2022</div>

Western Algebraic Geometry Symposium:

- Colorado State University   April 22-24, 2022

- University of Utah   November 2-3, 2019

- University of California at Berkeley   April 13-14, 2019

International Congress of Chinese Mathematicians (ICCM), Beijing
<div align="right">August 6-11, 2016</div>

Flat connections, Higgs bundles and Painleve equations in National Taiwan University
<div align="right">May 1-5, 2016</div>

International Congress of Chinese Mathematicians (ICCM), Beijing
<div align="right">July 14-19, 2013</div>