Department of Mathematics
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Jason Kountouridis

Research Interests

Arithmetic geometry in mixed characteristic and number theory
Singularities, K3 surfaces, connections to birational geometry

Education

2018–2024 **PhD Candidate, Mathematics**, *University of Chicago*, Advisor: Matthew Emerton
2017–2018 **Master of Mathematics**, *University of Cambridge* (Part III), UK
2013–2017 **B.A. in Pure Mathematics**, *Princeton University*, USA

Publications

1. **On simple singularities and Weyl monodromy actions in mixed characteristic**. arXiv:2312.09175. *Preprint.*

2. **Smoothness of components of the Emerton-Gee stack for $\mathbf{GL}_2$.** (with A. Guzman, K. Kansal, B. Savoie and X. Wang) arXiv:2209.09439. *To appear in Transactions of the AMS.*

Teaching Experience

Fall 2023 **University of Chicago, Instructor**: Math 15250 *Math Methods for Economic Analysis*
Winter 2023 **University of Chicago, Instructor**: Math 15300 *Calculus III*
Fall 2022 **University of Chicago, Instructor**: Math 15250 *Math Methods for Economic Analysis*
Winter 2022 **University of Chicago, Instructor**: Math 15200 *Calculus II*
Fall 2021 **University of Chicago, Instructor**: Math 15100 *Calculus I*
2020-2021 **University of Chicago, Instructor**: Math 13000s *Elementary Functions and Calculus I-II-III*
2019-2020 **University of Chicago, College Fellow** (Teaching Assistant): Linear Algebra, Introduction to Proofs, Algebraic Number Theory

Conferences attended

August 2023 **University of Michigan**: Stacks Project Workshop
May 2023 **Northwestern University**: Algebraic Geometry and Cohomology in Mixed Characteristic
Oct. 2022 **University of Illinois at Chicago**: Midwest Arithmetic Geometry and Number Theory Seminar
Sep. 2022 **Scuola Normale Superiore, Pisa**: Recent Perspectives in Hodge Theory

June 2022	**University of Washington, Seattle**: Algebraic Geometry and Singularities Learning Workshop and Conference, *Online*
March 2022	**University of Arizona, Tucson**: AWS 2022: Automorphic Forms Beyond GL_2.
March 2020	**University of Arizona, Tucson**: AWS 2020: Nonabelian Chabauty
Oct. 2019	**Ohio State University**: Midwest Arithmetic Geometry and Number Theory Seminar
Aug. 2019	**University of Michigan, Ann Arbor**: Conference in Arithmetic and Algebraic Geometry

Awards & Scholarships

2017-2018	A.G. Leventis Foundation Fellowship
2017	Middleton Miller Prize for Best Independent Work in Mathematics, Princeton University
2016	Peter A. Greenberg Prize for Outstanding Accomplishments in Mathematics, Princeton University

Service

Seminars organized:
Arithmetic of K3 surfaces (Winter 2022),
Shimura Varieties (Summer 2021),
Deligne–Mumford Stacks (Winter 2021),
Graduate Number Theory Seminar (2020-2021)

Languages

English (fluent), German (intermediate), French (basic), Greek (native)