Andrew Kwon

Department of Mathematics
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Education

Expected 2025   PhD in Mathematics, University of Pennsylvania
Advisor: Florian Pop

2019   BSc in Mathematics, Carnegie Mellon University

Research Interests

Galois theory, arithmetic geometry, model-theoretic algebra

Awards and Honors

2019 - 2024   NSF Graduate Research Fellowship
2018   Goldwater Scholar
2017   William Lowell Putnam Competition Honorable Mention

Publications & Preprints

A. Kwon, *Convergent Decomposition Groups and the $\mathfrak{S}$-adic Shafarevich Conjecture*, in preparation.

A. Kwon, *A Note on Diophantine Subsets of Large Fields*, preprint.

A. Kwon, *A Note on Minimal Additive Complements,* Discrete Mathematics, 342 (7) (2019) 1912-1918.

M. Asada, R. Chen, E. Fourakis, Y. Kim, A. Kwon, J. D. Lichtman, B. Mackall, S. J. Miller, E. Winsor, K. Winsor, J. Yang, and K. Yang, *Lower-Order Biases in Second Moments of Dirichlet Coefficients in Families of L-Functions*, Experimental Mathematics, 32 (3), 431-456.

Teaching

Summer 2023 *Instructor of Record*
University of Pennsylvania
Designed lectures, problem sets, and assessments for Introduction to Calculus.

2020 - 2021 *Teaching Assistant*
2024 - University of Pennsylvania
Taught section/graded problem sets for Multivariable Calculus.

2016 - 2019 *Teaching Assistant*
Carnegie Mellon University
Taught section/graded problem sets for: Concepts of Mathematics (3x), Linear Algebra.

Employment

2018 *Research Intern*
National Security Agency
Applied and extended language modeling and n-gram techniques to a high-priority classified project.

Service and Activities

2024 - Co-organizer
Penn-Temple Algebra Day

2024 Academic Committee
GTA Philadelphia Conference at Temple

2022 - 2024 Co-organizer
Graduate Algebraic Geometry Seminar, University of Pennsylvania

2021 Instructor
Princeton Prison Teaching Initative

2021 - 2024 Mentor
Penn Directed Reading Program

2020, 2022 Teaching Assistant
Penn Summer Math Academy

2018 - 2020 Referee
Journal of Number Theory, Publicationes Mathematicae Debrecen