Andrew Kwon

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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* S-adic Shafarevich Conjecture, preprint available upon request.

A. Kwon, A Note on Diophantine Subsets of Large Fields, preprint available upon request.

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.

Talks

- Nov. 2024 Penn Galois Seminar
- Oct. 2024 Anabelian Geometry and Representations of Fundamental Groups @ MFO
- Sep. 2024 Philadelphia Area Number Theory Seminar
- Jul. 2024 FRG Workshop on Definability, Decidability, and Computability @ Cambridge
- Dec. 2023 Penn Algebra Seminar

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