

PETER DILLERY

Email: dillery@umd.edu · Office: 4306 Kirwan Hall

EMPLOYMENT

University of Maryland, College Park
Brin Postdoctoral Fellow

College Park, MD
2022-present

EDUCATION

University of Michigan
PhD in Mathematics

Ann Arbor, MI
May 2022

University of Virginia
B.A. in Mathematics, GPA 4.0

Charlottesville, VA
June 2017

PAPERS AND PREPRINTS

1. *Non-basic rigid packets for discrete L -parameters* (with David Schwein). (preprint)
<https://arxiv.org/pdf/2408.13908>
2. *Isocrystals and limits of rigid local Langlands correspondences*. (preprint)
<https://arxiv.org/abs/2312.09195>
3. *A stacky generalized Springer correspondence and rigid enhancements of L -parameters* (with David Schwein). (preprint)
<https://arxiv.org/abs/2308.11752>
4. *Rigid inner forms over global function fields*. (preprint)
<https://arxiv.org/abs/2110.10820>
5. *Rigid inner forms over local function fields*.
Advances in Mathematics, 2023.
<https://arxiv.org/abs/2008.04472>
6. *The canonical join complex for biclosed sets*. (joint with with A. Clifton and A. Garver)[Research done as undergraduate].
Algebra Universalis, 2018.
7. *Minimal-length maximal Green sequences and triangulations of polyons*. (joint with with E. Cormier, K. Serhiyenko, J. Resh, and J. Whelan)[Research done as undergraduate].
Journal of Algebraic Combinatorics, 2016.

SERVICE AND OUTREACH

- University of Maryland
 - Co-organized number theory and representation theory seminar (Fall 2023-present)
 - Co-organizer for Brin Center workshop “Geometric Approaches to the Local Langlands Program” (March 2025)
 - DC Math Circle (Fall 2024): Taught mathematical enrichment classes to middle-schoolers in the DC area
 - Co-organized RIT seminar on “The stack of Langlands parameters (Spring 2024)
 - Provided lessons for DEI STEM repository at Indiana University Social Roles Laboratory (<https://socialroles.lab.indiana.edu/index.html>) (Spring 2024)
 - Co-organized Lie groups and representation theory seminar (Fall 2022-Spring 2023)
 - Organized UMD number theory lunch (Spring 2023-Spring 2024)
- University of Michigan
 - Co-supervised project for Michigan REU (Summer 2022)
 - Michigan Math Corps (Fall 2020-Spring 2021): Math outreach/mentoring program for middle-schoolers in Ypsilanti
 - Michigan Math Circle (Fall 2019): Taught mathematical enrichment classes to Ann Arbor middle-schoolers
 - Co-organizer for student arithmetic geometry learning seminar (Fall 2019)
 - Organizer for graduate student and postdoc number theory happy hour (Fall 2020-Spring 2021)

MENTORING

- Nir Elber, *Representations of Galois gerbes*, Summer REU at UofM, Summer 2022

AWARDS

- Rackham Pre-doctoral Fellowship (Fall 2021-Spring 2022)

TEACHING

University of Maryland, College Park

Course Instructor

- Math 405, Abstract Linear Algebra (Fall 2024)
- Math 406, Number Theory (Fall 2022, Spring 2023, Spring 2024)
- Math 120, Business Calculus I [200-person lecture] (Fall 2023)

College Park, MD

Fall 2022- present

University of Michigan

Graduate Student Instructor (GSI)

- Math 116, Calculus II [Primary instructor] (Fall 2019, Fall 2020)
- Math 115, Calculus I [Primary instructor] (Fall 2017-Spring 2019)

Ann Arbor, Mi

Fall 2017- Spring 2022

INVITED TALKS GIVEN (OR TO BE GIVEN) IN SEMINARS, WORKSHOPS, AND CONFERENCES

- ENS de Lyon. January, 2025.
- Institut de Mathématiques de Jussieu - Paris Rive Gauche. January, 2025.
- Oberseminar Arithmetische Geometrie und Darstellungstheorie - Max Planck Institute of Mathematics, Bonn, Germany. January, 2025.
- Ramanujan-Serre (Number Theory) Seminar. University of Virginia. November, 2024.
- MIT Lie Groups Seminar. October, 2024.
- Boston College Number Theory/Representation Theory Seminar. October, 2024
- Duke University Number Theory Seminar. October, 2024
- American University Mathematics and Statistics Colloquium. September, 2024
- University of Maryland Number Theory/Representation Theory Seminar, September, 2024
- University of Arizona Number Theory Seminar. April, 2024
- The Graduate Center (CUNY) Arithmetic Geometry Seminar. March, 2024.
- Southeastern Lie Theory Workshop. University of Virginia. February, 2024.
- Johns Hopkins Number Theory Seminar. December, 2023.
- University of Maryland Number Theory/Representation Theory Seminar. November, 2023.
- Johns Hopkins Number Theory Seminar. October, 2022.
- University of Maryland Lie Groups and Representation Theory Seminar. September, 2022.
- University of Copenhagen Number Theory Seminar (2 talks). June, 2022.
- MIT Lie Groups Seminar. May, 2022.
- Ramanujan-Serre (Number Theory) Seminar. University of Virginia. March, 2022.
- Junior Number Theory Days. Johns Hopkins. December, 2021.
- Automorphic Project and Research Seminar. October, 2021.
- University of Michigan Number Theory RTG Seminar. September, 2021.
- University of Michigan Number Theory RTG Seminar. August, 2020.