HENRY TWISS

henryjtwiss@gmail.com — www.henrytwiss.com — 651.368.4884

RESEARCH INTERESTS

Weyl group multiple Dirichlet series – Automorphic forms – Subconvexity

EDUCATION

Brown University, Providence, RI

2021-Present

PhD Mathematics, expected May 2026

Advisor: Jeff Hoffstein

University of Minnesota, Minneapolis, MN

May 2021

B.S. Mathematics, summa cum laude

Advisor: Adrian Diaconu

PUBLICATIONS AND PREPRINTS

- 1. A. Diaconu, H. Twiss. Secondary terms in the asymptotics of moments of *L*-functions. JNT PRIME, 2023; jnt.2023.04.010.
- 2. S. Creech, H. Twiss. A converse theorem in half-integral weight. Preprint, 2023; arXiv:2306.02872.
- 3. K. Benli, S. Goel, H. Twiss, A. Zaman. Explicit Deuring–Heilbronn phenomenon for Dirichlet L-functions. Preprint, 2024; arXiv:2410.06082.

AWARDS, SCHOLARSHIPS, FELLOWSHIPS, AND GRANTS

| DOMESTIC | |
|---|-----------|
| • Brown Mathematics First Year Fellowship, Brown University | 2021 |
| • NSF Graduate Research Fellowship, National | 2021 |
| • Barry M. Goldwater Scholarship, National | 2020 |
| • Hans H. Dalaker Scholarship, University of Minnesota | 2020 |
| • William H. Burgum Scholarship, University of Minnesota | 2019 |
| • Honors, every semester at University of Minnesota | 2017-2021 |
| • Dean's List, every semester at University of Minnesota | 2017-2021 |
| TRAVEL GRANTS | |
| • BIRS Travel Grant, Inclusive Paths in Explicit Number Theory | 2023 |
| • University of Chicago RTG Travel Grant, Notre Dame Topology & Geometry Workshop | 2019 |

EXPERIENCE

RESEARCH

DRS The Nonabelian Delta-symbol Method Research Group, Durham, NC

Analytic Number Theory and Automorphic Forms Dec. 2023 - Feb. 2024

BIRS Inclusive Paths in Explicit Number Theory Summer School, Kelowna, CA

Explicit Analytic Number Theory Jul. 2023 - Jul. 2023

University of Minnesota REU, Minneapolis, MN

Algebra, Combinatorics, and Representation Theory

Jun. 2020 - Aug. 2020

TEACHING

Brown University, Providence, RI

Lecturer, Analytic Number Theory II Mar. 2024 - May 2024

Art of Problem Solving, Online

| TA Introduction to Algebra A | May 2018 Aug 201 | |
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| TA, Introduction to Algebra A | May 2018 - Aug. 2018 | |
| VORKSHOPS AND CONFERENCES | | |
| AMS New England Graduate Student Conference | 202 | |
| Spring Graduate Student Conference, Providence, RI | | |
| Online Conference in Automorphic Forms | 202 | |
| Summer Conference in Automorphic Forms, Online | 900 | |
| Algebraic Combinatorics Workshop Spring Workshop in Algebraic Combinatorics, Online | 202 | |
| Notre Dame RTG Topology & Geometry Workshop | 201 | |
| Summer Workshop in Topology and Geometry, Notre Dame, IN | 201 | |
| EMINARS | | |
| Analytic Number Theory Learning Seminar, Brown University | 2023-Preser | |
| Graduate Student Seminar, Brown University | 2021-Preser | |
| Algebra and Number Theory Seminar, Brown University | 2021-Presei | |
| Student Combinatorics and Algebra Seminar, University of Minnesota | 2020-202 | |
| Student Number Theory Seminar, University of Minnesota | 2019-202 | |
| Undergraduate Mathematics Research Seminar, University of Minnesot | | |
| Summer Student Representation Theory Seminar, University of Minne | 2010 202 | |
| PRESENTATIONS AND POSTERS | 2010 202 | |
| | 2010 202 | |
| RESENTATIONS AND POSTERS RESEARCH TALKS Subconvexity for GL(2) L-functions and shifted MDS. | Oct. 202 | |
| RESENTATIONS AND POSTERS RESEARCH TALKS Subconvexity for GL(2) L-functions and shifted MDS. PIMS CRG: L-functions in Analytic Number Theory | Oct. 202 | |
| RESENTATIONS AND POSTERS RESEARCH TALKS Subconvexity for GL(2) L-functions and shifted MDS. PIMS CRG: L-functions in Analytic Number Theory Simultaneous non-vanishing for products of elliptic L-functions and affine WM. | Oct. 202 | |
| RESENTATIONS AND POSTERS RESEARCH TALKS Subconvexity for GL(2) L-functions and shifted MDS. PIMS CRG: L-functions in Analytic Number Theory | Oct. 202 IDS. Sep. 202 | |
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May 2018 - Aug. 2018

TA, Introduction to Algebra B

OUTREACH

| Mentor, Directed Reading Program, Brown University | 2020-Present |
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| Organizer, AMS New England Graduate Student Conference, Brown University | 2024 |
| Organizer, Undergraduate Mathematics Research Seminar, University of Minnesota | 2020 - 2021 |
| Panelist, Mathematics Project Minnesota, University of Minnesota | 2020 |
| Panelist, Mathematics Major Exploration Event, University of Minnesota | 2020 |

\mathbf{SKILLS}

Programming LanguagesPython, C++Computer Algebra SystemsSageMath, MathematicaTypesetLaTeX, Tikz, Beamer