HENRY TWISS

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

RESEARCH INTERESTS

Weyl group multiple Dirichlet series – Half-integral weight modular forms – Siegel zeros

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. Preprint, 2020; arXiv:2008.13297. *JNT Prime*.
- 2. S. Creech, H. Twiss. A converse theorem in half-integral weight. *Preprint*.
- 3. K. Benli, S. Goel, H. Twiss, A. Zaman. Explicit zero-repulsion of Dirichlet *L*-functions. *In preparation*.
- 4. H. Twiss. Simultaneous non-vanishing for products of elliptic L-functions. In preparation.
- 5. H. Twiss. Subconvexity for GL(2) L-functions via multiple Dirichlet series. In preparation.

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 B	May 2018 - Aug. 2018
TA, Introduction to Algebra A	May 2018 - Aug. 2018
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WORKSHOPS AND CONFERENCES	
AMS New England Graduate Student Conference	2022
Spring Graduate Student Conference, Providence, RI	
Online Conference in Automorphic Forms	2020
Summer Conference in Automorphic Forms, Online	
Algebraic Combinatorics Workshop	2020
Spring Workshop in Algebraic Combinatorics, Online	2020
Notre Dame RTG Topology & Geometry Workshop	2019
	2019
Summer Workshop in Topology and Geometry, Notre Dame, IN	
SEMINARS	
Analytic Number Theory Learning Seminar, Brown University	2023-Present
Graduate Student Seminar, Brown University	2021-Present
Algebra and Number Theory Seminar, Brown University	2021-Present
Student Combinatorics and Algebra Seminar, University of Minnesota	2020-2021
Student Combinatorics and Algebra Seminar, University of Willingsota	
	2019-2021
Student Number Theory Seminar, University of Minnesota	
	a 2017-2021
Student Number Theory Seminar, University of Minnesota Undergraduate Mathematics Research Seminar, University of Minnesota Summer Student Representation Theory Seminar, University of Minnes PRESENTATIONS AND POSTERS	a 2017-2021
Student Number Theory Seminar, University of Minnesota Undergraduate Mathematics Research Seminar, University of Minnesota Summer Student Representation Theory Seminar, University of Minnes PRESENTATIONS AND POSTERS RESEARCH TALKS	a 2017-2021 tota 2019-2020
Student Number Theory Seminar, University of Minnesota Undergraduate Mathematics Research Seminar, University of Minnesota Summer Student Representation Theory Seminar, University of Minnes PRESENTATIONS AND POSTERS RESEARCH TALKS Subconvexity for GL(2) L-functions in the conductor aspect.	a 2017-2021
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TEACHING

OUTREACH

Organizer, AMS New England Graduate Student Conference, Brown University	2024
Mentor, Directed Reading Program, Brown University	2020-2022
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

SKILLS

Programming Languages	Python, C++
Computer Algebra Systems	SageMath, Mathematica
Typeset	LaTeX, Tikz, Beamer