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. 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	
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	
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May 2018 - Aug. 2018

TA, Introduction to Algebra B

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