BOJUE WANG

bw391@math.rutgers.edu
bw2391@princeton.edu

EDUCATION

Rutgers University—New Brunswick Piscataway, NJ
Ph.D. Candidate in Mathematics *Aug 2021 – Present*

- Research Interest: Algebraic Geometry
- Current Project: Fake Projective Planes
- Advisor: Lev Borisov

Stevens Institute of Technology Hoboken, NJ
M.S. in Mathematics *Aug 2020 – Aug 2021*
M.S. in Physics *Aug 2018 – May 2020*

Tongji University Shanghai, China
B.S. in Applied Physics *Sep 2013 – Jun 2017*

AWARDS AND GRANTS

Summer Research Grants July 2024
Rutgers University *Piscataway, NJ*
Professor Joel Lebowitz's donation

Summer Research Grant Summer 2021
Stevens Institute of Technology *Hoboken, NJ*
Professor Rizos Sklinos' grant

Fellowship Fall 2018
Stevens Institute of Technology *Hoboken, NJ*
Provost Masters Fellowship Awards

RESEARCH AND PUBLICATIONS

G-PASTA: GPU Accelerated Partitioning Algorithm for Static Timing Analysis 2024

Master's Thesis—Hyperbolic Groups Jan 2021 – May 2022
Stevens Institute of Technology *Hoboken, NJ*
Advisor: Rizos Sklinos

ACADEMIC EXPERIENCE

Rutgers University—New Brunswick

Hodge Theory Learning Group Spring 2024

In the course Math 535 Algebraic Geometry I, spring 2024, by Prof. Borisov, we are grouped to study Hodge Theory. Finally, we made a presented lecture for which I involved the definition, examples of Hodge Structure, and how to produce Hodge Structures from what we were given.

Lie Algebra Learning Group Spring 2023

Semiweekly Learning meeting with a junior and a first-year Ph.D. student under the supervision of Prof. Siddhartha Sahi with text *Introduction to Lie Algebras and Representation Theory, Humphreys*

Complex Analysis Learning Seminar Fall 2022

Weekly learning seminar under the supervision of Prof. Xiaojun Huang with notes *Topics in One Complex Variable*

ODEs Directed Reading Course Fall 2022

Study of numerical and theoretical ODEs under the supervision of Prof. Konstantin Mischaikow with his unpublished book, *Ordinary Differential Equations: A Constructive Approach*, along with a project of problem-solving for completing the book

Commutative Algebra Directed Reading Fall 2022

Weekly meeting with two senior students and independent study under the supervision of Prof. Anders Buch with text *Commutative Algebra, Eisenbud*

Real Analysis Reviewing Summer 2022

Weekly meeting with Prof. Micheal Beals in reading the text *Real and Complex Analysis, Walter Rudin* and discussing some written qualifying exam problems at Rutgers University in real analysis part

Algebra Directed Reading Spring 2022

Weekly discussion and independent study under the supervision of Prof. Lev Borisov with text *Abstract Algebra, Dummit and Foote*

PROFESSIONAL APPOINTMENT

Princeton University *Princeton, NJ*
Instructor, Junior Summer Institute program
SPI600C—Advanced Statistics Summer 2024

Rutgers University—New Brunswick *Piscataway, NJ*
Instructor, Summer session
135—Calculus I Summer 2024
250—Intro Linear Algebra Summer 2023

Instructor, Rutgers Young Scholars program
General Mathematics Background Summer 2024

Teaching Assistant
351—Intro Abstract Algebra I Spring 2024
252—Elementary Differential Equations Fall 2023
311—Intro Real Analysis I Spring 2023
244—Differential Equations Spring 2023
250—Intro Linear Algebra Fall 2022, Spring 2023
135—Calculus I Fall 2022

Grader
552—Abstract Algebra II Spring 2024
350H—Linear Algebra Spring 2024
311—Intro Real Analysis I Spring 2024
551—Abstract Algebra I Fall 2023
527—Applied Math I Fall 2023
373—Numerical Analysis I Summer 2023
528—Applied Math II Spring 2023
550—Linear Algebra Fall 2022
321—Intro Applied Math Fall 2022
292H—Calculus IV Spring 2022

Mentor, Directed Reading program
Trisha Kothavale: *Clifford Algebra* Spring 2024
Peter Zhao: *Topology* Spring 2023
Mark Vaysiberg: *Smooth Manifold* Summer 2022

Stevens Institute of Technology *Hoboken, NJ*
Teaching Assistant
570—Analysis Review Fall 2021
573—Linear Algebra Review Spring, Summer, Fall 2021

PRESENTATIONS

Pizza Seminar Feb 18, 2022
Rutgers University—New Brunswick *Piscataway, NJ*
Geodesic Metric Spaces and Four Equivalent Properties of Geodesic Triangles

REFERENCE

Prof. Robert Michael Beals <beals@rutgers.edu>
Prof. Liping Liu <liu.liping@rutgers.edu>
Mr. Ariel Matos <ariel.matos@princeton.edu.>