

Chloe Urbanski Wawrzyniak

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Education

Rutgers University, New Brunswick, NJ May 2020
Doctor of Philosophy in Mathematics

Indiana University, Bloomington, IN May 2015
Bachelor of Science in Mathematics

Awards

AMS Rutgers University Student Chapter Award for Leadership Spring 2019
TA Teaching Excellence Award Fall 2018

Courses Taught

Instructor of Record

Course	Program	Semester
Preparation for Calculus	Rutgers Department of Mathematics	Fall 2019
Calculus 2 for Mathematical and Physical Sciences	Rutgers Department of Mathematics	Summer 2019
Introduction to Real Analysis	Rutgers Department of Mathematics	Summer 2019
Online and Hybrid Teaching	Rutgers Teaching Assistant Program	Spring 2019
Survey of Modern Mathematics	Columbia High School Program	Summer 2018
Thinking and Problem Solving: Math in the Real World	Columbia High School Program	Summer 2018
Introduction to Mathematical Reasoning	Rutgers Department of Mathematics	Summer 2017

Teaching Assistant

Course	Program	Semester
Introduction to Real Analysis	Rutgers Department of Mathematics	Fall 2018
Introduction to Real Analysis	Rutgers Department of Mathematics	Spring 2018
Advanced Calculus for Engineering	Rutgers Department of Mathematics	Fall 2017
Introduction to Abstract Algebra	Rutgers Department of Mathematics	Spring 2017
Calculus 1 for Mathematical and Physical Sciences	Rutgers Department of Mathematics	Fall 2016

Other Teaching Experience

Math 123: Preparation for Calculus

July 2019 - Present

Co-Coordinator

- Co-chair committee for design and implementation of new half-semester class 123: Preparation for Calculus
- Develop learning goals, other course content, and course structure for 123
- Teach first implementation of the course
- Support other instructors during first implementation

Rutgers Program in American Language Studies

March 2019 - Present

Instructor

- Support first-year international students in their mathematics courses
- Meet biweekly with students in the Rutgers Pathways program to answer questions and help with their mathematics homework

Rutgers Mathematics Program P2C2 Reform Committee

January 2019 - Present

Committee Member

- Investigate existing literature on best practices for teaching calculus and precalculus
- Examine existing precalculus and calculus course structures for areas of improvement
- Design and implement innovations in calculus and precalculus classes, such as active learning and flipped classrooms

Rutgers TA Project (TAP)

January 2018 - Present

TAP Associate

- Design and lead workshops for current teaching assistants
- Plan and coordinate yearly orientation for new teaching assistants
- Write articles for TA Project blog (<https://gsnb.rutgers.edu/tap-blog/>)
- Creator and host of a podcast interviewing Rutgers graduate students, faculty, and administrators about teaching (<http://tap.rutgers.edu/tapcast.php>)
- Designed a new database to track registration for programs

Rutgers Academy for the Scholarship of Teaching and Learning

August 2017 - Present

Fellow

- Meet monthly with faculty and other graduate students across Rutgers to discuss pedagogy
- Lead workshops for current teaching assistants

Rutgers Mathematics Department Teaching Group

June 2016 - Present

Co-organizer

- Organize and attend weekly meetings to discuss teaching-related topics
- Invite guest speakers including education researchers, the Senior Director of the Rutgers Learning Centers, and workshop organizers from Rutgers Health Outreach, Promotion, and Education (HOPE)
- Participate in College Mathematics Instructors Development Source (CoMInDS), a weekly teaching webinar hosted by the Mathematical Association of America

Rutgers B-STAR

Summers 2016, 2017

Math Instructor

- Prepare entering business students in Newark and New Brunswick for their first-year math courses
- Support students as they work through individualized lessons in ALEKS

One-Day Teaching Events

Introduction to College Teaching – Guest Speaker

March 2018

- Led a class discussion with current and future TA's at Rutgers
- Topic: Active Learning

Math Teacher's Circle

December 2017

- Led a professional development workshop for current elementary and middle school math teachers
- Topic: Spherical Geometry

Johns Hopkins Center for Talented Youth

July 2017

- Led a workshop for middle and high school students in the Johns Hopkins Gifted and Talented Youth Program
- Topic: Spherical Geometry

Leadership Activities

Rutgers PreDoctoral Leadership Development Academy

September 2019 - Present

Participant

- Meet weekly with other participants and university leaders to learn about university structure, leadership, and current issues in higher education

Rutgers Mathematics Directed Reading Program

August 2016 - Present

Organizer

- Pair advanced undergraduates with graduate students for independent study
- Schedule presentations by undergraduates in the program about their projects

Rutgers Mathematics Department

April 2016 - Present

Member – Liaison Committee

- Assess current unmet needs of graduate students
- Coordinate with graduate director to improve graduate program
- Design recruitment brochure for PhD in Mathematics program
- Plan and oversee open house for graduate program

Rutgers Mathematics Department

February 2016 – May 2016

Organizer – Basic Notions Seminar

- Invited faculty members to speak about their research to first- and second-year students
- Informed graduate students of seminar details, such as each week's speaker and his or her title and abstract
- Designed and maintained website for seminar information

Internal Talks

Rutgers Graduate Student Analysis Seminar

- Polynomial Convexity – December 4, 2017
- Geometric Proofs of Picard's Theorems – March 7, 2017

Rutgers Graduate Student Pizza Seminar

- Many Complex Notions of Convexity – September 28, 2018
- Cats are Liquid – January 26, 2018
- Reinventing the Wheel... Or Can We? – October 7, 2016
- The Miracle of Modern Notation – October 23, 2015

Research-Related Activities

External Talks

- Analysis and Geometry in Several Complex Variables – Texas A&M University at Qatar, January 2019
 - Title: Stability of hulls of the n -sphere under small perturbations
- 43rd Annual New York Regional Graduate Mathematics Conference – Syracuse University, March 2018
 - Title: Polynomial Convexity: Easy to State, Tough to Prove

March 2017 - Present

Proof Comprehension Reading Group

Graduate Student Member

- Discuss math education research about proof comprehension
- Support members' current math education research projects

Other Conferences Attended

- Joint Mathematics Meetings – Baltimore, January 2019
- Complex Geometry and Several Complex Variables – Notre Dame, March 2018
- Northeast Research on Undergraduate Math Education (RUME) Conference – Montclair State University, November 2017
- AMS Sectional Meeting – SUNY Buffalo, September 2017
- Midwest Several Complex Variables Conference – Brown University, June 2017

Course Management Systems and Other Instructional Technologies

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| • Canvas | • Google Drive |
| • Perusall | • Kaltura |
| • Big Blue Button | • Poll Everywhere |
| • Adobe Connect | • Socrative |
| • Google Hangouts | • Plickers |

General Technologies

- Audacity
- LaTeX
- HTML/CSS
- Microsoft Excel
- Microsoft Access