Chloe Urbanski Wawrzyniak

ceu11@math.rutgers.edu | (574)340-1718 | http://sites.math.rutgers.edu/~ceu11/

Education

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

May 2020

Indiana University, Bloomington, IN Bachelor of Science in Mathematics

May 2015

Awards

AMS Rutgers University Student Chapter Award for Leadership TA Teaching Excellence Award

Spring 2019 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

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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	

Syllabi and student evaluations for past courses can be found at math.rutgers.edu/~ceu11/PastCourses.

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, course content, and course structure for 123
- Teach first implementation of the course
- Support other instructors during first implementation through, for example, online communication, Canvas site design, and coordination of undergraduate Learning Assistants

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

- Design and implement innovations in precalculus to calculus 2 (P2C2) classes, such as active learning and flipped classrooms
- Investigate existing literature on best practices for teaching calculus and precalculus
- Initiate and implement focus groups to gather information from current P2C2 instructors
- Examine existing precalculus and calculus course structures for areas of improvement

Rutgers TA Project (TAP)

January 2018 - Present

TAP Associate

- Provide instructional support and guidance for new and current teaching assistants in the form of
 - Yearly orientation for new TAs
 - o Workshops on topics such as implicit bias, active learning, dealing with difficult students, and time management
 - o Courses, including one on online and hybrid teaching
 - Media such as a blog and podcast
- Consult with departments and school leaders on TA development issues, including organizing department-specific workshops for TAs and other interested clientele such as PTLs and NTTs
- Develop TA-related programming with a small team of other TAP associates
- Advise the TA Project Director on related strategic and operational matters

Rutgers Academy for the Scholarship of Teaching and Learning

August 2017 - Present

Fellow

- Discuss pedagogy in monthly meetings with faculty and other graduate students across
- Lead discussion sessions on topics such as student and instructor self-efficacy and time management in academia

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

Summers 2016, 2017

Rutgers B-STAR

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

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

Fellow

- Learn about university structure, leadership, and current issues in higher education from leaders across the Rutgers community
- Interview Rutgers leaders about their experience and perspectives
- Observe meetings led by university leaders

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 Directed Reading Program

August 2016 - May 2019

Organizer

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

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
- Designed and maintained website for seminar information

Research Activities

Publications

On the Stability of the Hull(s) of an n-Sphere in \mathbb{C}^n . Joint with P. Gupta. In preparation

External Talks

Analysis and Geometry in Several Complex Variables

Texas A&M University at Qatar, January 2019

o Title: Stability of hulls of the n-sphere under small perturbations

43rd Annual New York Regional Graduate Mathematics Conference

Syracuse University, March 2018

o Title: Polynomial Convexity: Easy to State, Tough to Prove

Invited Workshops

- Mathematical Sciences Research Institute: The $\overline{\partial}$ -Problem in the Twenty-First Century, June
- American Institute of Mathematics: Problems on holomorphic function spaces and complex dynamics, April 2019

Professional Memberships: American Society of Mathematics, Graduate Student Member

Proof Comprehension Research Group

March 2017 - Present

Graduate Student Member

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

Internal Talks

- Rutgers Graduate Student Analysis Seminar
 - o Polynomial Convexity December 4, 2017
 - o Geometric Proofs of Picard's Theorems March 7, 2017
- Rutgers Graduate Student Pizza Seminar
 - o Many Complex Notions of Convexity September 28, 2018
 - o Cats are Liquid January 26, 2018
 - o Reinventing the Wheel... Or Can We? October 7, 2016
 - The Miracle of Modern Notation October 23, 2015

Course Management Systems and Other Instructional Technologies

- Canvas
- Perusall
- Big Blue Button
- Adobe Connect
- Google Hangouts

- Google Drive
- Kaltura
- Poll Everywhere
- Socrative
- **Plickers**

General Technologies

- Audacity
- LaTeX
- HTML/CSS

- Microsoft Excel
- Microsoft Access
- Mathematica