

# RYAN WEIGHTMAN

*Masters Student of Pure Mathematics*

## CONTACT DETAILS

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## DESCRIPTION

I am a Masters Student currently studying at Rutgers University–Camden. I am a dedicated instructor and student of mathematics with experience using a variety of methods to teach mathematics in a myriad of classroom settings. I hope to continue my education in the form of pursuing a PhD and some day make a contribution to a scientific field through the lens of mathematics.

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## EDUCATION

**Rutgers University–Camden Graduate School of Arts & Sciences: Camden, NJ**  
M.S in Pure Mathematics: Expected May 2020

**Rutgers University–Camden Institute for Effective Education: Camden, NJ**  
Teacher Preparation Program: Mathematics (P-12)  
Teaching Certification: Awarded Jan. 2019, CEAS

**Rutgers University–Camden College of Arts & Sciences: Camden, NJ**  
B.A in Mathematics: Awarded May 2018  
Minor: Spanish

**The University of Salamanca: Salamanca, Spain**  
Study Abroad: June 2016-Aug. 2016

## HONORS AND AWARDS

**Camden Graduate Scholarship recipient** (Jan. 2018-May 2020)

**Meritorious Achiever Award recipient** (Sept. 2014- May 2018)

**Academic Excellence Scholarship recipient** (Sept. 2014-May 2018)

**Mathematical Sciences Career Motivation Award recipient** (May 2018)

**Phi Beta Kappa Honor Society**

**International Mathematics Honor Society (Pi Mu Epsilon of New Jersey Gamma)**

**The National Leadership Honor Society (Omicron Delta Kappa)**

**Rutgers University–Camden Athenaeum Honor Society**

**Rutgers University–Camden Civic Scholar Scholarship recipient** (Sept. 2014- May 2018)

**Rutgers University–Camden Honors College** (Sept. 2014-May 2018)

## TEACHING EXPERIENCE

### **Rutgers University–Camden: Camden, New Jersey**

Part Time Lecturer  
Jan. 2019-present

- Assigned to teach courses covering topics in elementary/intermediate algebra, basic set theory and basic logic
- Plan and execute algebra lessons based on student need
- Develop materials to be used as assessment, homework, and supplementary materials for students

Teaching Assistant (TA)  
Jan. 2020-present

- Assigned to grade homework assignments and assist in the facilitation of courses such as Calculus II, Calculus III, and Differential Equations
- Assisted various professors in the development and implementation of their remote courses

Course Developer  
Sept. 2020

- Assigned to develop the online section of an introductory algebra course for Rutgers University–Camden
- Involving but not limited to creating: lecture videos, syllabus, course schedule, exams and homework, grading scale, and course expectations for a partially asynchronous version of the course

### **Collingswood High School: Collingswood, New Jersey**

Long-Term Substitute Teacher  
Sept. 2016-June 2019

- Possess a State of New Jersey Substitute Teacher Certification
- Long-term substitute for AP Calculus and Honors Trigonometry (April 2018-June 2018)
- Instruct 80 sophomore, junior, and senior year students in the absence of the classroom teacher
- Help to prepare AP Calculus students for the College Board AP exam
- Create, implement and manage online resources for students participating in a Twilight program
- Substitute in the absence of cross-disciplinary teachers and student aids in grades 6-12
- Implement classroom management strategies in the absence of the regular classroom teacher

### **Cinnaminson Middle School: Cinnaminson, New Jersey**

Student Teacher  
Sept. 2018-Dec. 2018

- Plan and execute Common Core-aligned pre-algebra lessons for 90 seventh grade students of varying skill-levels
- Participate in parent-teacher conferences, staff meetings, and department meetings
- Implement classroom management strategies

## TEACHING EXPERIENCE CONTINUED

### **First Korean United Methodist Church (FKUMC): Cherry Hill, NJ**

Pre-Calculus and AP Calculus Instructor  
June 2018-Sept. 2018

- Teach 12 students in Pre-Calculus and 4 in AP Calculus during a summer enrichment program (totaling 45 hours per class)
- Prepare curriculum and materials
- Grade assignments
- Administer assessments

### **Self-Employed: Collingswood, NJ**

Math Tutor  
June 2013-present

- Tutor 15 students ranging from 4th grade math to college pre-calculus including ESL and ELL students
- Prepare grade-level curriculum

## RESEARCH EXPERIENCE

### **Rutgers University-Camden: Camden, New Jersey**

Masters Thesis in Pure Mathematics  
Fall 2020

- Supervisor: Dr. Siqi Fu
- Topic of study: Properties of bounded domains and minimizing the first Dirichlet Laplacian Eigenvalue.

Research Assistant for the Center for Computational and Integrative Biology  
Fall 2020

- Supervisors: Dr. Benedetto Piccoli and Dr. Sean McQuade
- Topic of study: Covid-19 adapted SEIRS model and optimization of costs

## Competency in the Following Programs:

**MATLAB**

**C++**

**Canvas**

**Youtube (for creating mathematical content)**