

# KAITLIN R MACIEJEWSKI

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## EDUCATION

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### **Columbia University**

Masters of Science: Biostatistics

**New York, NY**

May 2019

### **Fairfield University**

Bachelor of Science: Mathematics • Minor: Engineering

GPA: 3.61 • Cum Laude

**Fairfield, CT**

May 2015

## EXPERIENCE

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### **Mathnasium - The Math Learning Center**

*Center Director, Math Instructor*

**Fairfield, CT**

September 2015 - August 2017

- Utilized quantitative skills, communication, creativity, and Mathnasium Method to instruct students ages 5-18 years
- Conducted student assessments to determine understanding over memorization; created and monitored individualized learning plans to support students' needs; reviewed students' progress with parents
- Updated websites for three centers; Included topical articles, instructor bios, and center information
- Organized and advertised monthly calendar of events, including game day and STEM night to benefit and entertain students and community

### **Hubbell Incorporated**

*Summer Intern, Product Support Engineering, Phil Burdo*

**Shelton, CT**

May - August 2014

- Used company database, Excel spreadsheets, and XRF analysis machine to certify product compliance with RoHS and REACH environmental safety standards; completed 300% more requests than average weekly rate
- Coordinated with team of interns to create and distribute surveys, brainstorm ideas, and communicate findings to design company-wide new product development training materials

### **Fairfield University**

*ReBound Technology, Research Assistant in Thermal Design Optimization*

**Fairfield, CT**

January 2014 - May 2014

- Printed 3D coupons with SolidWorks software and Objet Eden printer; investigated efficient cleaning methods for internal parts of 3D-printed pieces
- Created code in EES to solve equations to assist in design and model of heat exchanger for application in refrigeration technology

*Fairfield University Society of Women Engineers, President*

June 2014 - May 2015

*Co-Founder, Treasurer*

January 2013 - June 2014

- Organized budget, activities, and schedule for first annual "Engineering is SWEet" day for 40 local Girl Scouts
- Created budget and coordinated funding for club activities; annually funded 5 members' regional conference attendance

### **University of Connecticut, Center for Clean Energy Engineering**

*Summer Research Assistant, NSF REU Program, Professor Alexander Agrios*

**Storrs, CT**

May - August 2013

- Conducted original experiments to explore chemical combinations and technique to create thin aerogel films for applications on solar cells
- Created Excel spreadsheet to organize variables tested and assist in identification of trends
- Presented and reported findings to lab group and program participants on bi-weekly basis

## PUBLICATION

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Rua, Y., Maciejewski, K., Muren, R., Reckinger, S. M., (2014). Relationship Between the pH of Sodium Hydroxide Solution and 3D Printed Support Resin Dissolution. Zone 1 Conference, American Society for Engineering Education.

## PROJECTS

### Fairfield University

*Applied Statistical Methods; Inquiry into School Districts in CT*

Fairfield, CT

December 2015

- Designed study questions to research differences between school districts in CT
- Used RStudio to run appropriate tests on data and completed report about findings

*Capstone Project; Overview of Einstein's General Relativity*

May 2015

- Investigated Einstein's field equation in 2-dimensions; modeled behavior of test particle in presence of massive object using MATLAB software
- Reported historical background and significance of relativity in capstone paper and presented findings at Fairfield University's Sigma Xi poster presentation

*Water Chlorinator, Unidad Académica Campesina-Carmen Pampa, Bolivia*

August 2014

- Constructed water chlorination system to serve college campus and local community in Bolivia, about 600 people
- Surveyed land to assist in planning and designing of additional chlorination and sand filtration systems

## POSTERS AND PRESENTATIONS

Capstone Project; Overview of Einstein's General Relativity

*Fairfield University Sigma Xi Student Research Poster Session, 2015*

Relationship Between the pH of Sodium Hydroxide Solution and 3D Printed Support Resin Dissolution

*Fairfield University Sigma Xi Student Research Poster Session, 2014*

Fairfield University Engineers without Borders Water Chlorinator Project at Unidad Académica Campesina-Carmen Pampa, Bolivia

*Fairfield University Sigma Xi Student Research Poster Session, 2014*

Relationship Between the pH of Sodium Hydroxide Solution and 3D Printed Support Resin Dissolution

*Zone 1 Conference, American Society for Engineering Education, 2014*

Relationship Between the pH of Sodium Hydroxide Solution and 3D Printed Support Resin Dissolution

*Fairfield University Math Department Colloquium, 2014*

Relationship Between the pH of Sodium Hydroxide Solution and 3D Printed Support Resin Dissolution

*Society of Women Engineers Region F 2014 Conference Poster Session, 2014*

## HONORS AND AWARDS

Huo Foundation Scholarship

2017

Fairfield University Honor's Program, completed with High Distinction

2015

Fairfield University Dean's List

2102-2015

Pi Mu Epsilon, National Mathematics Honor Society

2015

Honorable Mention, Zone 1 Conference, American Society for Engineering Education

2014

2nd Place in Society of Women Engineers Region F 2014 Conference Poster Competition

2014

National Society of Collegiate Scholars

2013

Tau Beta Phi, Fairfield University Engineering Honor Society

2013

Fairfield University School of Engineering Bernadette and John Porter Scholarship

2013

John G Phelan Scholarship for Engineering Excellence

2013

## COMPUTER SKILLS

R Studio, MATLAB, EES, SolidWorks, L<sup>A</sup>T<sub>E</sub>X, Microsoft Office, Mac OS, Windows OS

## LANGUAGE SKILLS

Native English speaker; Conversational Spanish speaker