

KAITLIN R MACIEJEWSKI

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EDUCATION

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

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

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

Fairfield, CT

Applied Statistical Methods; Inquiry into School Districts in 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; created mathematical model of 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

HONORS AND AWARDS

Huo Foundation Scholarship	2017
Fairfield University Honor's Program, completed with High Distinction	2015
Fairfield University Dean's List	2102-2015
National Society of Collegiate Scholars	2013
Pi Mu Epsilon, National Mathematics Honor Society	2015
2nd Place in Society of Women Engineers Region F 2014 Conference Poster Competition	2014
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^AT_EX, Microsoft Office, Mac OS, Windows OS

LANGUAGE SKILLS

Native English speaker; Conversational Spanish speaker