

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

- Managed, supervised, and trained staff of 12 instructors
- Utilized quantitative skills, communication, creativity, and Mathnasium Method to instruct 60 students monthly ages 5-18 years, increasing grades and test scores
- Conducted student assessments to determine understanding over memorization; created individualized learning plans to support students' needs; wrote monthly progress reports for students
- Updated websites for three centers; added topical articles, wrote instructor bios, center information
- Launched first ever monthly calendar of events, including game day and STEM night

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

ReBounce 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

- Co-founder of Society of Women Engineers chapter; co-wrote constitution
- Organized budget, activities, and schedule for first annual "Engineering is SWEet" day for 40 local Girl Scouts; 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; 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 2012-2015

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, GitHub, beginner Python, beginner SAS, SolidWorks, L^AT_EX, Microsoft Office, Mac OS, Windows OS

LANGUAGE SKILLS

Native English speaker; Conversational Spanish speaker