

MARY PETERSEN

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OBJECTIVE

Obtain full-time employment utilizing mathematics, statistics, and/or data science

EDUCATION

Bachelor of Science, Mathematics

Rose-Hulman Institute of Technology, Terre Haute, IN

Minors: Data Science, Spanish

Concentration: Statistics and Operations Research

November 2020

GPA: 3.89/4.00

SKILLS

- **Programming languages:** R, Matlab, LaTeX, SQL, Java, Python, Minitab
- Six Sigma Trained
- Quality and Reliability Engineering
- Mathematics & Statistics
- Data Analysis
- Statistical & Mathematical Modeling
- Reproducible Research

WORK EXPERIENCE

Indiana University – Purdue University Indianapolis, Indianapolis, IN

6/2019-8/2019

Mathematical Researcher

- Created a model to understand star-shaped abnormalities when modeling cancer cell motion through the vascular system
- Performed a sensitivity analysis to determine which parameters had the greatest effect on the model
- Presented my findings at the Indiana Undergraduate Math Research Conference and at the IUPUI Summer Poster Symposium

AgReliant Genetics, Westfield, IN

6/2018-8/2018

Data Scientist Intern

- Created a model to estimate the corn yield throughout various locations in the United States
- Developed a tool to perform hybrid selection to help farmers determine the hybrid that will lead to the highest financial profit using the corn yield model

Closure Systems International, Crawfordsville, IN

6/2017-8/2017

Design Engineer Intern

- Analyzed the process of producing bottle caps and brainstormed ways to increase efficiency
- Designed a plastic shredder to close-loop production by instantaneously incorporating the defective bottle caps back into the process to be melted and reformed into new bottle caps

HONORS & ACTIVITIES

- Dean's List (8/8 quarters), *Rose-Hulman Institute of Technology*
- Treasurer (2018-2019), *Chi Omega Sorority*
- Student-Faculty Dialogue Committee, *Blue Key Honor Society*
- Varsity Cross Country, Indoor and Outdoor Track, *Rose-Hulman Institute of Technology*