

EMILY SHAEFFER

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EDUCATION

Salisbury University: August 2020 – May 2024

- Major: Mathematics B.S. – Actuarial Science and Statistics
- Minor: Data Science
- 4.0/4.0 overall GPA

ACTUARIAL EXAMS

- | | | |
|--------------------------------|--------|---------|
| Society of Actuaries – Exam FM | Passed | 08/2022 |
| Society of Actuaries – Exam P | Passed | 03/2023 |

SKILLS

- | | |
|--------------------|---|
| R/RStudio/Markdown | Quantitative/statistical analysis with applications in business |
| Excel/Latex | Oral/Written communication/Presentation |
| Java/C++/Python | Leadership/Teamwork |

COURSEWORK

- | | |
|------------------------------|---------------------------------------|
| Calculus I-III | Survey Design & Sampling |
| Linear Algebra | Microeconomics & Macroeconomics |
| Mathematical Statistics I-II | Accounting |
| Financial Mathematics | Time Series Analysis |
| Financial Management | Statistical Learning |
| Regression Analysis | Data visualization and interpretation |
| Discrete Mathematics | Design and Analysis of Experiments |

RESEARCH EXPERIENCE

- Undergraduate Thesis – Mental Health and the ACA Medicaid Expansion

Completed an Undergraduate Thesis under the Clarke Honors College at Salisbury University. I analyzed the effect of the Medicaid expansion under the Affordable Care Act on the mental health of individuals. I worked with large data sets – 11 datasets with 250+ variables and 400,000+ observations each. I used various statistical analyses in R such as Difference-in-Difference and modeling with the Poisson distribution. I presented this thesis at the Salisbury University Student Research Conference in Spring 2024.

- Third place in the 2024 SOA Case Study Challenge

WORK EXPERIENCE

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|--|-------------------|
| Statistics Intern - TidalHealth <ul style="list-style-type: none">10 hours per weekAnalyzed demographics and trends of a Medigap datasetGained experience working with large datasets in ExcelParticipated in this internship as part of my coursework | 08/2022 – 12/2022 |
| Mathematics Tutor <ul style="list-style-type: none">4 hours per weekTutored fellow students in various lower-level math classesGained leadership experience and communication skills | 08/2021 – 05/2024 |

HONORS/ACTIVITIES AT SALISBURY UNIVERSITY

- | | |
|-------------------------------------|-------------------------------|
| Member of the Clarke Honors College | Member of Omicron Delta Kappa |
| Member of Pi Mu Epsilon | Member of the Outdoors Club |
| Dean’s List | Presidential Scholarship |