

ANNALIESE WIELER

345 Galvin, Notre Dame, IN 46637 · awiens@nd.edu · (817) 793-7327

PROFESSIONAL SUMMARY

- Experienced statistical programmer in R, with additional skills in Python and SQL
- Statistical modeler with experience in infectious disease modeling and analysis of messy data sets
- Mathematics and science communicator with skills in bridging gaps between mathematicians and decision-makers

EDUCATION

UNIVERSITY OF NOTRE DAME

PhD, Biological Sciences

Thesis: *Using mathematical models to translate clinical trial results into impact projections for spatial repellents*

GPA: 3.9

Notre Dame, IN
Graduation Expected 2023

UNIVERSITY OF NOTRE DAME

MS, Applied and Computational Mathematics and Statistics

Thesis: *Inferring the entomological effects of a spatial repellent*

GPA: 4.0

Notre Dame, IN
Graduation Expected 2023

TABOR COLLEGE

Majors: Mathematics and Biology

Minor: Philosophy

GPA: 3.98

Research Project: *Dose-response models in influenza challenge studies*

Hillsboro, KS

May 2018

TECHNICAL SKILLS

Programming and Computer Skills: R (advanced), Unix (intermediate), Python (intermediate), Microsoft Office (advanced), SQL (intermediate)

Languages: English (native), French (conversational), Spanish (conversational), German (beginner), Russian (beginner), Italian (intermediate), Norwegian (beginner)

PROFESSIONAL EXPERIENCE

UNIVERSITY OF NOTRE DAME

Research Assistant, Dept of Biological Sciences

- Developed a computational framework to translate clinical trial data of interventions against malaria into projections of product demand and impact against disease on a global scale
- Cleaned messy randomized clinical trial data sets and incorporated them into transmission models to get cohesive insights from multiple data sources using Bayesian inference methods
- Applied my previously developed framework for malaria clinical trials to dengue trials while mentoring an undergraduate researcher

Notre Dame, IN
August 2018-present

UNIVERSITY OF NOTRE DAME

Teaching Assistant, Dept of Biological Sciences

Notre Dame, IN
January 2019-May 2019

- Communicated statistical concepts to students without previous statistical experience, leading to proficiency in experimental design, R programming, and inference
- Trained fellow teaching assistants in best practices for teaching R programming
- Collaborated with students outside of office hours to devise independent projects and choose the best statistical analysis for their problems

LEADERSHIP & SERVICE

Professional Development Chair, Biology Graduate Student Organization (BGSO)	August 2020-Present
Member, American Statistical Association (ASA)	August 2018-Present
Member, Association of Women in Science (AWIS)	August 2018-Present