Annaliese Wieler

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**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** Notre Dame, IN

PhD, Biological Sciences Graduation Expected 2023

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

GPA: 3.9

**UNIVERSITY OF NOTRE DAME** Notre Dame, IN

MS, Applied and Computational Mathematics and Statistics Graduation Expected 2023

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

GPA: 4.0

**TABOR COLLEGE** Hillsboro, KS

Majors: Mathematics and Biology May 2018

Minor: Philosophy

GPA: 3.98

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

**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** Notre Dame, IN

*Research Assistant, Dept of Biological Sciences* August 2018-present

* 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

**university of Notre Dame** Notre Dame, IN

*Teaching Assistant, Dept of Biological Sciences* 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