

MARYA POTEREK

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EDUCATION

University of Notre Dame, Notre Dame, IN
Ph.D. student in Biological Sciences 2019 - present
Advisor: Alex Perkins

University of Notre Dame, Notre Dame, IN
M.S. student in Computer Science and Engineering 2020 - present

University of Notre Dame, Notre Dame, IN
B.S. in Science-Computing 2015 - 2019
Minor in Arts and Letters Honors (Glynn Family Honors Program)

RESEARCH EXPERIENCE

Computational Genomics, Dartmouth College
National Science Foundation – REU Intern June 2017 – Aug. 2017
Advisor: Olga Zhaxybayeva

College of Science, University of Notre Dame
Research Assistant, Summer Undergraduate Research Fellow Aug. 2016 – May 2019
Advisor: Alex Perkins

TEACHING EXPERIENCE

University of Notre Dame
Tutor – Biological Sciences 1, 2 (BIOS 10161, 10162) Aug. 2016 – May 2018
Led weekly remedial tutoring sessions

WORK EXPERIENCE

rewardStyle, London, United Kingdom
Business Intelligence Analyst Aug. 2017 – Dec. 2017

Notre Dame Office of Information Technologies, Notre Dame, IN
Student Consultant Aug. 2016 – May 2019

AWARDS

Notre Dame Graduate School Professional Development Award (\$668) 2019
Best Undergraduate Disease Ecology Poster, Ecological Society of America 2019
Richard and Peggy Notebaert Premier Fellowship (\$40,000/yr) 2019 – 2024
Glynn Family Honors Program Fellow 2015 – 2019

PUBLICATIONS

TA Perkins, SM Cavany, SM Moore, RJ Oidtman, A Lerch, M.Poterek. **Estimating unobserved SARS-CoV-2 infections in the United States**. *Proceedings of the National Academy of Sciences*.

PREPRINTS

Guido Espana, Sean Cavany, Rachel J Oidtman, Carly Barbera, Alan Costello, Anita Lerch, Marya Poterek, Quan Tran, Annaliese Wieler, Sean M Moore, Alex Perkins. **Impacts of K-12 school reopening on the COVID-19 epidemic in Indiana, USA**. *medRxiv*
doi:10.1101/2020.08.22.20179960. (In review at *Epidemics*).

Marya L. Poterek, Moritz Kraemer, Alexander Watts, Kamran Khan, Alex Perkins. **Air passenger travel and international surveillance data predict spatiotemporal variation in measles importations to the United States.** *medRxiv* doi:10.1101/2021.01.21.21250251. (In review at *Pathogens*).

MANUSCRIPTS

Marya L. Poterek, Gregory D. Ebel, Nathan D. Grubaugh, Chantal B.F. Vogels, T. Alex Perkins, Sean M. Cavany. **Exploring conditions that enable arbovirus co-infection using mathematical modeling.** In preparation.

PRESENTATIONS

Marya Poterek, Moritz Kraemer, Alexander Watts, Kamran Khan, Alex Perkins. **Modeling measles importation into the United States using international measles incidence and air passenger travel data.** Poster. *Epidemics*⁷ (2019).

Marya Poterek, Moritz Kraemer, Alexander Watts, Kamran Khan, Alex Perkins. **Modeling measles importation into the United States using international measles incidence and air passenger travel data.** Poster. Ecological Society of America (2019).

Marya Poterek, Moritz Kraemer, Alexander Watts, Kamran Khan, Alex Perkins. **Modeling measles importation into the United States using international measles incidence and air passenger travel data.** Poster. American Society of Tropical Medicine and Hygiene (2018).

Marya Poterek, Magdalene Walters, Yutong Yao, Nicholas Bonneau, Alex Perkins. **Statistical analysis of death records provides insights about childhood disease epidemics in 18th century New England.** Poster. Notre Dame College of Science Joint Annual Meeting (2017).

WORKSHOPS

Complex Networks Winter Workshop, University of Vermont Complex Systems Center 2021
XSEDE High Performance Computing Workshop: Big Data and Machine Learning 2020
Summer Institute in Statistics and Modeling in Infectious Diseases, University of Washington 2020

- Awarded scholarship (\$600)

LANGUAGES

English – native language
Spanish – intermediate speaking, reading, and writing abilities

SOFTWARE SKILLS

C++, R, Python, Unix, MATLAB, JavaScript, Java, HTML, SQL

ADDITIONAL EXPERIENCE AND SERVICE

Association for Women in Science Mentor 2020 - present
Graduate Women in Science National Fellowship Program Volunteer 2020 - present
Northern Indiana Regional Science and Engineering Fair Subject Area Chair and Project Judge 2020
Association for Women in Science 2019 - present
Science Policy Initiative 2019 - present
Notre Dame Biology Graduate Student Organization 2019 - present
Humane Society of St. Joseph County Volunteer 2018 - present
Students Consulting for Nonprofit Organizations Project Leader 2016 - 2019
Memorial Hospital Volunteer 2015 - 2019