

Alana McGovern

University of Washington, Seattle, WA, 98195

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EDUCATION

PhD, Statistics, University of Washington Sep 2021 - present

Research Advisor: Jon Wakefield

MS, Biostatistics, Harvard TH Chan School of Public Health Sep 2019 – May 2021

BS, Applied Mathematics, University of Rochester Aug 2015 – May 2019

Minors: Statistics, Economics

Honors: *magna cum laude*, Phi Beta Kappa, Departmental Honors

RESEARCH AND PROFESSIONAL EXPERIENCE

Graduate Student Researcher Oct 2021 – present

University of Washington, Department of Statistics

- Working on Bayesian spatial-smoothing methods for estimating child mortality at the subnational level in countries with disparate data sources
- Developed and led the execution of a pipeline to produce subnational under-five and neonatal mortality rates estimates in over 30 LMICs, in close coordination with the United Nations Inter-agency Group for Mortality Estimation

Biostatistics Intern Jan 2020 – May 2021

Dana-Farber/Boston Children's Cancer and Blood Disorders Center

Supervisors: Dr. Clement Ma & Dr. Wendy London

- Worked with various teams of health professionals to design and conduct individualized data analyses relevant to their research goals
- Engaged in research with Dr. Andrew Chapple to optimize his novel Phase I clinical trial dose-finding design using a Bayesian framework
- Used Chapple's dose-finding design to generate and present weekly dose recommendations for an active clinical trial (ID: NCT03429803)

Research Student Summer 2018

Summer Institute of Biostatistics at Boston University Research Student

Supervisors: Dr. Anita DeStefano & Dr. Jacqueline Milton

- Recipient of full NHLBI scholarship
- Participated in research project utilizing NHANES data to investigate the association between diabetes and depression across various population strata

TEACHING EXPERIENCE

University of Washington Seattle, WA

Teaching Assistant Sep 2021 – May 2022

- STAT 390 (Su 23): Statistical Methods in Engineering and Science
- STAT 403 (Sp 23): Introduction to Resampling Inference
- STAT 311 (Sp22): Elements of Statistical Methods
- STAT 221 (W22): Statistics Concepts and Methods for Social Sciences
- STAT 220 (F21): Statistical Reasoning

Harvard TH Chan School of Public Health

Grader

Boston, MA

Summer 2020

- BST 206 (Su20): Introductory Statistics for Medical Research

University of Rochester

Teaching Assistant

Rochester, NY

Jan 2017 – May 2019

- MTH 203 (Sp19): Mathematical Statistics
- MTH 200 (F18): Transition to Higher Mathematics
- ECO 108 (Sp18): Principles of Economics
- MTH 161/143 (Sp17, F18, Sp18): Calculus I & II

PUBLICATIONS

McGovern A, Wilson K, Wakefield J. "Direct-Assisted Bayesian Unit-level Modeling for Small Area Estimation of Rare Event Prevalence." (under revision)

McGovern A, Chapple AG, Ma C. (2022). "2S-Sub-TITE: An adaptive two-stage time-to toxicity model for subgroup-specific dose finding." *Pharmaceutical Statistics*, 21. 6.

Carpenter K, Scavotto M, **McGovern A**, Ma C, Kenney LB, Mack JW, Greenzang KA. (2021). "Early Parental Knowledge of Late Effect Risks in Children with Cancer." *Pediatric Blood Cancer*, e29335.

Umaretiya PJ, Li A, **McGovern A**, Ma C, Wolfe J, Bona K. (2021). "Race, ethnicity, and goal-concordance of end-of-life palliative care in pediatric oncology." *Cancer*, 127. 20.

Lim-Fat MJ, Vogelzang J, Woodward E, **McGovern A**, Ma C, Al-Sayegh H, Alexandrescu S, Margol A, Cotter J, Cole K, Li M, Owens E, Smith A, Goldman S, Kaneva K, Burton E, Nazemi K, Wright K, Wen P, Warren K, Touat M, Reardon D, Bi WL, Ligon K, Yeo KK. (2020). "A multi institutional comparative analysis of the clinical, genomic, and survival characteristics of pediatric, young adult and older adult patients with IDH mutant glioma." *Neuro-Oncology*, 22. 2.

HONORS & AWARDS

Dorothy M. Gilford Teaching Award 2022: Awarded by University of Washington Department of Statistics for outstanding performance by a graduate teaching assistant

RELEVANT COURSEWORK

- Advanced Regression Methods (I-II)
- Advanced Theory of Statistical Inference (I-III)
- Stochastic Processes (I-II)
- Statistical Learning
- Applied Bayesian Analysis
- Decision Theory