

Alana McGovern

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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

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

Boston, MA

Summer 2020

University of Rochester

Teaching Assistant

- 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

Rochester, NY

Jan 2017 – May 2019

PUBLICATIONS

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

Lim-Fat MJ, et al. (2024). "A comparative analysis of the IDH-mutant glioma in pediatric, young adult and older adult patients." *Neuro-Oncology*, online ahead of print.

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, et al. (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