

Bayesian data integration for small area estimation of pathogen prevalence dynamics from pooled and individual data

Braden Scherting
Graduate Student
Dept. Mathematical Sciences
Montana State University
MT, USA
`bradenscherting@montana.edu`

Alison Peel
ARC Discovery Early Career Researcher Award Research Fellow
Centre for Planetary Health and Food Security
Griffith University
Queensland, AU
`a.peel@griffith.edu.au`

Raina Plowright
Associate Professor
Dept. Microbiology and Immunology
Montana State University
MT, USA
`raina.plowright@montana.edu`

Andrew Hoegh
Assistant Professor
Dept. Mathematical Sciences
Montana State University
MT, USA
`andrew.hoegh@montana.edu`

April 1, 2022

Funding: This research was developed with funding from The Defense Advanced Research Projects Agency DARPA PREEMPT D18AC00031. The content of the information does not necessarily reflect the position or the policy of the U.S. government, and no official endorsement should be inferred

Word Count: The manuscript contains 6248 words, excluding figures, tables, references, and appendices.