

Jessica Godwin

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Education

University of Washington

Ph.D. in Statistics, Demographic Methods

September 2021

Research advisor: Jon Wakefield

Dissertation: Spatiotemporal estimation of period child mortality in a low and middle income countries context

Auburn University

M.S. in Statistics

August 2013

Research advisor: Nedret Billor

Thesis: The group lasso for functional logistic regression

B.S. in Actuarial Science, Summa Cum Laude

May 2011

Publications

Godwin J, Wakefield J (2021) “Space-time modeling of child mortality at the Admin-2 level in a low and middle income countries context”. *Statistics in Medicine*, 1–46.

Li Z, Hsiao Y, Godwin J, Martin BD, Wakefield J, Clark SJ (2019) “Changes in the spatial distribution of under-five mortality rate: Small-area analysis of 122 DHS surveys in 262 subregions of 35 countries in Africa”. *PLoS One* 14(1).

Wakefield J, Fuglstad GA, Riebler A, Godwin J, Wilson K, Clark SJ (2018) “Estimating under-five mortality in space and time in a developing world context”. *Statistical Methods in Medical Research* (2018).

Sharrow DJ, Godwin J, He Y, Clark SJ, Raftery AE (2018) “Probabilistic Population Projections for Countries with Generalized HIV/AIDS Epidemics”. *Population Studies* 72(1), 1–15.

Godwin J, Raftery AE (2017). “Bayesian Projections of Life Expectancy Accounting for the HIV/AIDS Epidemic”. *Demographic Research* 37, 1549–1610.

Wakefield J, Simpson D, Godwin J (2016). “Comment: Getting into Space with a Weight Problem”. *Journal of the American Statistical Association* 111(515), 1111–1118.

Billor N, Godwin J (2015). “Variable Selection for Functional Logistic Regression in fMRI Data Analysis”. *Turkiye Klinikleri Journal of Biostatistics* 7(1).

Conference Presentations

Population Association of America

April 2019

Oral presentation: Small Area Estimation of Child Mortality at Admin-2 Level

Population Association of America

April 2017

Oral presentation: Probabilistic Projections of Mortality in Countries with Generalized HIV Epidemics for Use in Total Population Projection

Population Association of America

April 2016

Joint Statistical Meetings

August 2015

Oral presentation: Bayesian Projections of Life Expectancy Accounting for HIV Prevalence for All Countries in the World

Joint Statistical Meetings

August 2013

Southern Regional Council on Statistics

June 2013

Poster presentation: The Group Lasso for Functional Logistic Regression

Research Experience

Max Planck Institute for Demographic Research

Pre-doctoral Researcher

Winter 2019–Spring 2019

Lab of Digital and Computational Demography. Subnational estimation of adolescent and young adult mortality in low and middle income countries.

Supervisor: Emilio Zagheni (zagheni@demogr.mpg.de)

University of Washington

Research Assistant

July 2015–July 2017

Bayesian spatiotemporal estimation of under-five mortality.

Advisor: Jon Wakefield (jonno@uw.edu)

Research Assistant

June 2014–July 2015

Bayesian hierarchical modeling of life expectancy in the presence of HIV.

Advisor: Adrian Raftery (raftery@uw.edu)

Teaching Experience

University of Washington

Teaching Assistant, STAT 554

Winter 2021

Spatial statistics. Grading assignments, office hours.

Supervisor: Jon Wakefield (jonno@uw.edu)

Teaching Assistant, STAT 529

Spring 2020, 2018

Survey statistics. Writing & teaching labs, writing homeworks, grading, office hours.

Supervisor: Elena Erosheva (erosheva@uw.edu)

Instructor, CSSS 505

Winter 2020, 2018

Review of Mathematics for Social Scientists.

- Instructor, STAT 302** Autumn 2019
 Statistical programming in R and SAS.
- Instructor, Math Camp CSSS** September 2016–2021
 Review of Mathematics for Social Scientists and introduction to R and STATA.
- Teaching Assistant, SOC 504** Autumn 2018
 Intro to Statistics for Social Scientists. Grading, office hours.
 Supervisor: Kyle Crowder (kylecrow@uw.edu)
- Teaching Assistant, STAT 221** Autumn 2013–Spring 2014
 Intro to Statistics for Social Scientists. Lecturing, grading, holding office hours.
 Supervisor: June Morita (june@uw.edu)

Auburn University

- Instructor, STAT 2510** Fall 2011–Spring 2013
 Introduction to statistics and R.
 Supervisor: Bertram Zinner (zinnebe@auburn.edu)

Professional Experience

Center for Studies in Demography & Ecology (CSDE), University of Washington

- Interim Training Director** September 2021–Present
 Supervisor: Sara Curran (scurran@uw.edu)

CSDE & PHI Applied Research Fellowship Program, University of Washington

- Project Lead** Summer 2021
 Scope summer project for stakeholders at King County to be completed by team of 5 student fellows (3 graduate, 2 undergraduate). Advise and direct research into changes and trends in household composition by size and ownership status and housing vulnerabilities and development of online visualization tool for spatiotemporal results.
 Supervisors: Sara Curran (scurran@uw.edu), Arti Shah (artishah@uw.edu)

Sparta, Inc.

- Systems Analyst** Summer 2011, 2012
 Model and Simulation team. Use simulation software and statistical methods to build a model of a cancer treatment facility to design an efficient hospital floor plan and optimize resource levels in order to minimize patient time in system.
 Supervisor: Jim Walsh (james.walsh@parsons.com)

Honors and Awards

University of Washington

- CSDE Shanahan Fellow**
CSSS Travel Award Spring 2020
CSDE Big Data to Knowledge Fellowship 2017

CSDE Travel Award

Spring 2016

Auburn University

Master's Thesis Award

October 2014

Awarded to up to three Master's theses per year in Mathematics, Physical Sciences and Engineering

COSAM Travel Award

Summer 2013

Applied, was accepted and provided with funding to attend

John and Rosemary Brown Scholarship

Fall 2009–Spring 2010

Given to one male and one female junior and senior majoring in Mathematics

Merit Scholarship

2007–2011

Spirit of Auburn Presidential Scholarship

2007–2011

Other

Undergraduate Workshop: Object Data Analysis, SAMSI

Spring 2011

Society of Actuaries P Exam Passed

May 2010

Society of Actuaries FM Exam Passed

November 2009

Service

Reviewer

PLoS One, Demographic Research, Biometrics Journal

Center for Studies in Demography & Ecology, University of Washington

Population Dynamics Lab

2020–Present

Development and Editorial Board

Department of Statistics, University of Washington

WiBS

2017–2020

Founder and member of leadership of an organization in UW's Statistics and Biostatistics departments to create community for and provide extra support and resources to women and nonbinary students .

Diversity Committee

January 2017–December 2018

Graduate Student Representative to Faculty

May 2015–May 2017

Plan all recruitment activities for prospective Ph.D. students, plan all orientation activities for incoming Ph.D./M.S., attend faculty meetings.

Student Representative, ASA

May 2015–August 2017

Liaison between students and the officers of the Puget Sound Chapter of the American Statistical Association

Department of Mathematics and Statistics, Auburn University

Science Olympiad

2011–2013

Event judge middle school Science Olympiad meet held yearly at Auburn University.

Computing

Proficient in: R, SAS, Stata, Excel, C, Minitab, SPSS, ExtendSim8