James Hogg

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Date of Birth: 22 April 1996

I am a second year PhD student in the School of Mathematical Sciences at the Queensland University of Technology (QUT) under the supervision of Distinguished Professor Kerrie Mengersen, Dr Susanna Cramb, Professor Peter Baade and Dr Jessica Cameron. My PhD work is funded by the internationally-awarded Australian Cancer Atlas, where my role is to develop Bayesian hierarchical models to generate small area level cancer risk factor estimates. During my first year as a PhD candidate, I have been employed as a tutor for two postgraduate biostatistics courses at the University of Queensland (UQ) and a first-year statistics course at QUT. In addition, I have been a QUT research assistant for a project on the modifiable areal unit problem under the lead of Dr Susanna Cramb and Ass. Prof. Helen Thompson.

Prior to starting my PhD, I completed the Masters in Biostatistics run by the Biostatistics Collaboration of Australia, a program accredited by the Statistical Society of Australia (SSA). In the Masters I obtained the highest level of achievement in all units (GPA 7). My Masters thesis (Grade: 7 (95%)) was completed at the Cancer Council Queensland; I investigated socioeconomic disparities in late-stage breast cancer using Bayesian hierarchical models.

Employment and Experience

February 2022 – June 2022
Tutoring (casual) – Regression Modelling 2 (STAT7619)
UQ, Australia

October 2021 – March 2022
Research assistant (part-time)
QUT, Australia

September 2021 – November 2021
Tutoring (casual) – Quantitative Skills for Health Scientists (LQB286)
QUT, Australia

July 2021 – October 2021
Tutoring (casual) – Categorical Data & Generalised Linear Models (STAT7608)
UQ, Australia

Conferences and research presentations

Short presentation
Higher Degree Research Academy Event, July 2021
QUT, Australia

Short presentation
Bayesian Research & Applications group, August 2021
QUT, Australia

Short presentation
Early Careers section of ACEMS Final Retreat, November 2021
Moreton Island, Australia

Contributed talk
Title: *Searching for stability: Introducing a method of small area estimation for proportions using severely sparse data*
Small Area Estimation, Surveys and Data Science, May 2022
Virtual

Short presentation
Title: *Searching for stability in Bayesian small area estimation of proportions*
QANZIAM, June 2022
QUT, Australia
Award: Honourable Mention for Best Student Presentation

Poster presentation (*accepted*)
Title: *Introducing a Bayesian two-stage logistic-normal model for small area estimation of proportions*
The Bayesian Young Statisticians Meeting, June 2022
Centre de recherches mathématiques at Université de Montréal, Canada

Poster presentation (*accepted*)
Title: *Introducing a Bayesian two-stage logistic-normal model for small area estimation of proportions*
International Society of Bayesian Analysis World Meeting, June 2022
Hotel Bonaventure, Montreal, Canada

Qualifications

2021 (ongoing)
Doctor of Philosophy (School of Mathematical Sciences)
QUT, Australia

2018-2020
Masters of Biostatistics
UQ, Australia
Dean's Commendation for Academic Excellence (2018 & 2019)
GPA: 7

2015-2017
Bachelor of Music with Distinction: Minor in Statistics
QUT, Australia
Dean's Award for Excellence (all 6 semesters)
GPA: 6.542

Relevant Skills & Professional Activities

Research Thesis (Cancer Council Queensland) – March 2020 to November 2020
Software (in order of proficiency): R, Rmarkdown, Latex, MS Office Suite, Endnote, Stan, WinBUGS, Shiny, JAGS, Github, Julia, Python, Stata
Student member of the Statistical Society of Australia (SSA)
Student member of the International Society of Bayesian Analysis (ISBA)
Attendance at SSA seminars as part of continuing professional development
Member of the ARC Centre of Excellence for Mathematical and Statistical Frontiers, Centre for Data Science, Health Equity Research with Outcomes

Professional Referees

Prof. Peter Baade
Cancer Council Queensland
Senior Manager, Descriptive Epidemiology
Email: PeterBaade@cancerqld.org.au
Phone: +61 7 3634 5317

Dr Jessica Cameron
Cancer Council Queensland
Research Fellow-Spatial Modelling, Descriptive Epidemiology
Email: JessicaCameron@cancerqld.org.au
Phone: +61 7 3634 5387

Dr Michael Waller
School of Public Health, University of Queensland
BCA Program Coordinator, Senior Lecturer
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