

IAN CAIRNS

Portland, OR

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EDUCATION

M. Sc. in Statistics, Portland State University 2023

Thesis: *Markov chain Monte Carlo using Hamiltonian dynamics.*

B. Sc. in Mathematics, Western Washington University 2017

EXPERIENCE

Adjunct Instructor - Mathematics August 2023 - June 2024
University of Portland *Portland, OR*

- Taught *Elementary Statistics* to ~30 undergraduates.
- Wrote syllabus; created all lecture materials and exams.
- Achieved ratings of 4.5/5 for ‘effective communicator’ and 4.43 for “teaching methods effectively conveyed content” on student evaluations.

Graduate Teaching Assistant April 2023 - June 2023
Portland State University *Portland, OR*

- Taught bi-weekly recitation sessions for *Statistics for Engineering* (~120 students).
- Graded weekly assignments; provided constructive feedback.

Statistics Tutor Jan 2022 - April 2023
Portland State University *Portland, OR*

- Provided one-on-one tutoring to undergraduates in various statistics courses; accommodated individual learning styles.

Actuarial Analyst Intern, Health July 2022 - September 2022
Milliman *Seattle, WA*

- Analyzed healthcare data and created summary reports.
- Developed client identification tool; facilitated detection of new business.
- Integrated staffing projections database; enabled accurate resource allocation.

Underwriter II Feb 2018 - Sep 2021
Kaiser Permanente *Seattle, WA*

- Developed healthcare premium forecasting models.
- Collaborated with cross-functional teams; achieved risk alignment.
- Analyzed financial risks of various demographic parameters.
- Hired as Underwriter I; promoted to Underwriter II, January 2019.

SKILLS

Programming languages Expert with R; skilled with Python, VBA, SQL; familiar with SAS.

Data tools Expert with Excel; familiar with Access.

Markup Skilled with \LaTeX .

PROJECTS

Bootstrap regression analysis Applied bootstrap methods to generate bias-corrected and accelerated (BCa) confidence intervals for variable selection; compared effectiveness to stepwise variable selection techniques.