Ameer Dharamshi

PhD Student · Biostatistics

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Education _____ **University of Washington** Seattle, WA, USA PhD in Biostatistics September 2022 - Present Advisor: Daniela Witten **University of Toronto** Toronto, ON, Canada MSc in Statistical Sciences September 2019 - June 2020 **University of Waterloo** Waterloo, ON, Canada September 2013 - June 2018 **BMATH IN MATHEMATICS/CPA** • Minors in Statistics and Computer Science Professional Experience _ 2022-Present Graduate Research Assistant, Department of Biostatistics, University of Washington 2020-2022 Research & Data Consultant, Global Education Monitoring Report, UNESCO

Publications

2018-2019 Consultant, Deloitte Canada

PUBLISHED

Dharamshi, A., Ngo, V., & Rosenthal, J. S. (2023). Sampling by divergence minimization. *To appear in: Communications in Statistics - Simulation and Computation*. Available from: https://doi.org/10.48550/arXiv.2105.00520.

2021-2022 Part-time Researcher, Bayesian Demography Lab, University of Toronto

Dharamshi, A., Barakat, B., Alkema, L. & Antoninis, M. (2022) A Bayesian model for estimating Sustainable Development Goal indicator 4.1.2: School completion rates. *Journal of the Royal Statistical Society: Series C (Applied Statistics)*, 71(5), 1822–1864. Available from: https://doi.org/10.1111/rssc.12595.

PREPRINTS

Dharamshi, A., Neufeld, A., Motwani, K., Gao, L. L., Witten, D. & Bien, J. (2023). Generalized data thinning using sufficient statistics. *arXiv preprint*. Available from: https://doi.org/10.48550/arXiv.2303.12931.

Dharamshi, A., Antoninis, M., Montoya, S. & Barakat, B. (2023). A Bayesian cohort model for estimating out-of-school rates and populations. *SocArXiv preprint*. Available from: https://osf.io/preprints/socarxiv/sqwb2/

Neufeld, A., **Dharamshi, A.**, Gao, L. L., & Witten, D. (2023). Data thinning for convolution-closed distributions. *arXiv* preprint. Available from: https://doi.org/10.48550/arXiv.2301.07276.

IN PREPARATION

Dharamshi, A., Alexander, M., Winant, C. & Barbieri, M. (2023+). Jointly estimating subnational mortality for multiple populations.

Scholarships & Awards_

2022 **Top Scholar Recruitment Award**, University of Washington **Faculty of Arts and Science Doctoral Recruitment Award (Declined)**, University of Toronto

March 2023

2013-2017 Faculty of Mathematics Entrance Scholarship, University of Waterloo

2013 **President's Scholarship of Distinction**, University of Waterloo

Presentations _____

INVITED TALKS

2022

Estimating SDG 4 Indicators with a Bayesian Modelling Framework: Completion and Out-of-School Rates. 9th Annual Meeting of the Technical Cooperation Group on SDG4 Indicators (TCG): Joint EMIS and Surveys Working Group. (November)

A Bayesian Cohort Model for Estimating SDG Indicator 4.1.4: Out-of-School Rates. STAB Working Group, University of Washington. (November)

2021

Estimating Out-of-School Rates. Bayes Working Group, University of Massachusetts Amherst. (December)

Out-of-School Rate Modelling. 8th Annual Meeting of the Technical Cooperation Group on SDG4 Indicators (TCG): Household Surveys Working Group. (October)

Adjusted Bayesian Completion Rates (ABC). Bayes Working Group, University of Massachusetts Amherst. (June)

CONTRIBUTED PRESENTATIONS

2022

Dharamshi, A., Alexander, M., Winant, C. & Barbieri, M., A Bayesian Hierarchical Model for Jointly Estimating Subnational Mortality for Multiple Populations. Oral presentations:

- European Population Conference 2022, Groningen, Netherlands (presented remotely),
- 6th HMD Symposium, Paris, France,
- PAA Annual Meeting, Atlanta, USA (presented remotely).

2019

Dharamshi, A. & Zou, R. Y., CSEye: A Proposed Solution for Accurate and Accessible One-to-Many Face Verification. Poster:

• AAAI-2019 Student Abstract Tract, Honolulu, USA.

Teaching Experience _____

University of Toronto

Summer 2020 STA 302: Methods of Data Analysis I, Teaching Assistant

Winter 2020 STA 238: Probability, Statistics and Data Analysis II, Teaching Assistant Fall 2019 STA 237: Probability, Statistics and Data Analysis I, Teaching Assistant

University of Waterloo

Summer 2015 MATH 127: Calculus 1 for the Sciences, Teaching Assistant

Fall 2014 MATH 135: Algebra for Honours Mathematics, Teaching Assistant

Outreach & Professional Development _____

PEER REVIEW

Demographic Research

COMMUNITY SERVICE

2022-Present EDI Committee Member, University of Washington

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Additional Information _

- Technical Skills: R/RMarkdown, Stan, Python, SQL, C/C++, MATLAB, Julia
- General Skills: LaTeX and Microsoft Office
- Languages: English (native), French (basic)
- Hobbies: reading, squash, tennis, skating, baking, board games

MARCH 2023