

Monica Alexander

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Education

Ph.D (Demography), **University of California, Berkeley**, *Expected May 2018*.
M.Arts (Statistics), **University of California, Berkeley**, 2015.
M.Social Research (Demography), **Australian National University**, 2013.
B.Science (Hons) (Mathematics and Chemistry), **University of Tasmania**, 2008.

Professional Experience

World Health Organization

Consultant

September 2016 – June 2017

I worked on building a framework to help inform modeling decisions made for estimating national health indicators related to mortality and family planning.

Data Science for Social Good

Fellow

May 2016 – September 2016

I applied machine learning techniques to help identify students in grades K-2 who are at high risk of not reaching grade reading level by the end of third grade.

Human Mortality Database

Graduate Student Researcher

January 2015 – May 2016

I estimated mortality rates and construct lifetables for small populations and populations that do not have reliable mortality data. Mortality is modeled by applying a combination of traditional model lifetable techniques and Bayesian methods.

UNICEF Technical Advisory Group

Consultant

March 2014 – July 2015

I constructed a model to estimate neonatal mortality rates for all countries worldwide based on data from a wide ranges of sources.

The Centre for Aboriginal Economic Policy Research

Research Officer

April 2012 – December 2014

I helped research and write papers related to Australian Indigenous policy, particularly in the areas of employment and education.

Reserve Bank of Australia

Analyst/Senior Analyst

February 2010 – June 2013

I conducted research on topics related to currency, as well as preparing periodical analytical reports. I was responsible for the creation, maintenance, and analysis, of large databases. I also gave currency-related presentations and had some supervisory responsibilities.

Teaching Experience

University of California, Berkeley

Instructor, Formal Demography Workshop, Berkeley

5–9 June, 2017

Instructor, Formal Demography Workshop, Berkeley

17–21 August, 2015

Graduate Student Instructor, Demographic Methods

Fall Semester, 2014

University of Tasmania*Tutor*, Calculus and Applications I

Semester 1, 2009

Tutor, Data Handling and Statistics I

Semester 2, 2008

Demonstrator, Chemistry I

Semester 1, 2008

Other*Instructor*, Introduction to Causal Inference, ITAM, Mexico

March 2017

Instructor, IUSSP Workshop on social media data and demography, Mainz, 31 August 2016

Papers

*Current working papers***Alexander, M.**, Barbieri M., and Kiang, M., ‘Opioid deaths by race in the United States, 2000–2015.’, <https://osf.io/preprints/socarxiv/jm38s>.**Alexander, M.**, and Alkema, L., ‘Estimating Neonatal Mortality’, <https://arxiv.org/abs/1612.03561> (forthcoming in *Demography*).**Alexander, M.**, Zagheni, E., and Barbieri, M., ‘A Flexible Bayesian Model for Estimating Subnational Mortality’, <https://arxiv.org/abs/1607.03534>.*Peer-reviewed articles***Howlett, M.**, Gray, M., and Hunter, B., ‘Wages, government payments and other income of Indigenous and non-Indigenous Australians’, *textitAustralian Journal of Labour Economics*, 2016, 19 (2), 53-76.Hunter, B., **Howlett, M.**, and Gray, M., ‘The Economic Impact of the Mining Boom on Indigenous and Non-Indigenous Australians’, *Asia & the Pacific Policy Studies*, 2015, 2 (3), 517-530.Gray, M., **Howlett, M.**, and Hunter, B., ‘Labour Market Outcomes for Indigenous Australians’, *The Economic and Labour Relations Review*, 2014, 25 (3), 497-517.Biddle, N., **Howlett, M.**, Hunter, B., and Paradies, Y., ‘Labour Market and Other Discrimination Facing Indigenous Australians’, *Australian Journal of Labour Economics*, 2013, 16 (1), 91-113.*Conference presentations***Alexander M.**, Barbieri M., and Kiang M.V., Opioid-related deaths by race in the United States: Trends and patterns in multiple causes of death. PAA Annual Meeting 2017: Chicago, IL (April 2017).Goldstein, J., and **Alexander, M.**, Towards a New, Public Data Set for Studying Mortality Inequality: Matching the 1940 U.S. Census With Social Security Death Records, 1963?2011. PAA Annual Meeting 2017: Chicago, IL (April 2017).**Alexander, M.**, Zagheni, E., and Barbieri, M., A Flexible Bayesian Model for Estimating Subnational Mortality. PAA Annual Meeting 2016: Washington, DC (April 2016) and European Population Conference 2016: Mainz, Germany (August 2016).**Alexander, M.**, and Alexander, R., Mothers returning to study. International Conference on Population Geographies. Queensland, Australia (June 2015).

Alexander, M., Estimating Neonatal Mortality. PAA Annual Meeting 2015: San Diego, CA (April 2015).

Goldstein, J., and **Howlett, M.**, Tempo and the economy: decomposing the effect of economic shocks on births into tempo and quantum. European Population Conference 2014: Budapest, Hungary (August 2014).

Howlett, M., Social and Cultural Determinants of the Self-Assessed Health of Indigenous Australians. PAA Annual Meeting 2014: Boston, MA (April 2014) (Poster).

Other published papers

Hunter, B., **Howlett, M.**, and Biddle, N., ‘Modelling Exposure to Risk of Experiencing Discrimination in the Context of Endogenous Ethnic Identification’, *IZA Discussion Paper #8040*, March 2014.

Honors

Elizabeth Scott Memorial Award (for promise in statistical research)	2015
Regents-Intern Fellowship (merit-based multi-year funding award)	2013-2015
Lado Ruzicka Prize in Social Research (for academic excellence)	2013
W.D. Borrie Prize (for best student paper on a population-related topic)	2012
University Medal	2008
Edith Rita Lowenstern Prize (for best mathematics honors student)	2008
Australian Student Prize (for academic excellence in secondary school)	2004