

## Megan E. Costa

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### Academic Positions

*Assistant Professor*, T. Denny Sanford School of Social and Family Dynamics, Arizona State University, January 2019-present

*Postdoctoral Scholar*, Diversity and Inclusion Sciences Initiative, T. Denny Sanford School of Social and Family Dynamics, Arizona State University with Dr. Natalie Wilkens, 2016-2018

*Guest Researcher* at the Division of Reproductive Health, National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention (CDC), June 2017-present

*Guest Researcher* at the Broom Center for Demography, University of California, Santa Barbara, May 2014 - December 2014

*Post-Bachelor Fellow* with Dr. Julie Rajaratnam and Dr. Haidong Wang, Institute for Health Metrics and Evaluation, University of Washington, 2009-2011

*Undergraduate Research Assistant* with Dr. Donna Leonetti, Nisei Aging Project, 2008-2009

### Research and Teaching Interests

Demography, Demographic Methods, Social Demography, Sociology of the Family, Reproductive Decision Making, Maternal and Child Health

### Education

- August 2016 Ph.D., Demography and Sociology, Graduate Group in Demography, University of Pennsylvania,  
Dissertation title: *Three Essays on Household Determinants of Child Health and Well-being*  
Chair: Irma T. Elo Committee: Jere R. Behrman, Kristen Harknett, and Michael Gurven (UC Santa Barbara)
- May 2014 M.A., Demography, Graduate Group in Demography, University of Pennsylvania
- August 2012 M.S.c., Demography and Health, London School of Hygiene and Tropical Medicine
- May 2009 B.A., Anthropology, Department of Anthropology, University of Washington  
Departmental Honors and certificate, Medical Anthropology and Global Health

## Research

- H index = 3 (Publish or Perish [Harzing, 2016] <http://www.harzing.com/pop.htm>)
- Citations = 1030 total, 103 per year (Publish or Perish [Harzing, 2018])
- IF = the journal's most recent Thomson Reuters Impact Factor from ISI Web of Knowledge at the time of publication
- Role = how I contributed to the manuscript
- The percentage after "Role" is an estimated percentage of the total effort for the publication

## Works Published and Forthcoming

### *Peer-Reviewed Journal Articles – Empirical Studies*

8. GBD 2017 Risk Factors Collaborators, including **Costa, M. E.** (2018). Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet*, 392(10159), 1923-1994. IF: 53.254 Role (5%): Provided data expertise, revised and edited draft
7. GBD 2017 SDG Collaborators, including **Costa, M. E.** (2018). Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet*, 392(10159), 1789-1858. IF: 53.254 Role (5%): Provided data expertise, revised and edited draft
6. GBD 2017 SDG Collaborators, including **Costa, M. E.** (2018). Measuring progress from 1990 to 2017 and projecting attainment to 2030 of the health-related Sustainable Development Goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet*, 392(10159), 2091-2138. IF: 53.254 Role (5%): Provided data expertise, revised and edited draft
5. GBD 2017 Population and Fertility Collaborators, including **Costa, M. E.** (2018). Population and fertility by age and sex for 195 countries and territories, 1950–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet*, 392(10159), 1995-2051. IF: 53.254 Role (5%): Provided data expertise, revised and edited draft
4. **Costa, M. E.**, Trumble, B., Kaplan, H., & Gurven, M. D. (2018). Child nutritional status among births exceeding ideal family size in a high fertility population. *Maternal & child nutrition*, e12625. IF: 3.23 Role (90%): Generated research questions, analyzed data, drafted and edited manuscript
3. Gurven, M., **Costa, M.**, Trumble, B., Stieglitz, J., Beheim, B., Rodriguez, D. E., Hooper P. L., & Kaplan, H. (2016) Health costs of reproduction are minimal despite high fertility, mortality and subsistence lifestyle, *Scientific Reports*, 6. doi:10.1028/srep30056 IF: 5.228, Role (50%): Co-created research questions, designed analytic plan, synthesized and analyzed data, revised and edited drafts
2. Rajaratnam, J. K., Marcus, J. R., Flaxman, A. D., Wang, H., Levin-Rector, A., Dwyer, L., **Costa, M.**, Lopez, A. D., & Murray, C. J. (2010). Neonatal, postneonatal, childhood, and under-5 mortality for 187 countries, 1970–2010: a systematic analysis of progress towards Millennium Development Goal 4. *The Lancet*, 375(9730), 1988-2008. doi:10.1016/S0140-6736(10)60703-9 IF: 53.254, Role (15%): Synthesized and analyzed data, revised and edited drafts

1. Rajaratnam, J. K., Marcus, J. R., Levin-Rector, A., Chalupka, A. N., Wang, H., Dwyer, L., **Costa, M.**, Lopez, A. D., & Murray, C. J. (2010). Worldwide mortality in men and women aged 15–59 years from 1970 to 2010: a systematic analysis. *The Lancet*, *375*(9727), 1704–1720. doi:10.1016/S0140-6736(10)60517-X IF: 53.254, Role (15%): Synthesized and analyzed data, revised and edited drafts

## Works in Preparation and Under Review

### *Peer-Reviewed Journal Articles – Empirical Studies*

8. Kelly, L., **Costa, M.**, Serbanescu, F., Cunningham, S.A. (under internal CDC review). *Emergent son preference in the context of fertility decline*.
7. **Costa, M.**, & Kelly, L. (under internal CDC review). *Ideals, Intentions, and Investments in Children in Kigoma, Tanzania*.
6. **Costa, M.** (in preparation, working paper available upon request). *Grandparental Co-residence and Child Nutritional Status: Evidence from the Young Lives Study*.
5. Eggum-Wilkens, N. D., An, D., Zhang, L., & **Costa, M.** (in preparation). *Co-occurrence and cross-informant agreement of shyness, unsociability, and social avoidance during early adolescence*. Manuscript under review (*Social Development*).
4. Eggum-Wilkens, N. D., Zhang, L., An, D., Xu, J., & **Costa, M.** (in preparation). *Social withdrawal subtypes in early adolescence: Associations with peer relationships and friendship*. Manuscript in preparation.
3. **Costa, M.**, & Eggum-Wilkens, N. D. (in preparation). *Household Composition and Child Socio-Emotional Development in Four Low and Middle Income Countries*.
2. **Costa, M.**, & Gurven, M. D. (in preparation, working paper available upon request). *Socioeconomic Differences in Nutritional Status Among Children Aged 0-5 in the Bolivian Amazon*.
1. **Costa, M.** (in preparation). *Unwanted and Unhealthy? Child Health and Nutrition Among Unwanted Children by Stage of Fertility Decline in the Demographic and Health Surveys*.

## Presentations

### *Refereed Professional Conference Paper Presentations*

6. Kelly, L., **Costa, M. E.** (2018, April). Latent Son Preference in the Context of Fertility Decline. Presenting in session “Emerging Trends in Sex Preferences” at the Population Association of America Annual Meeting, Denver, CO.
5. **Costa, M. E.**, Gurven, M. (2017, April). Grandparental Coresidence and Child Nutritional Status: Evidence from the Young Lives Study. Presented in session “Family Diversity and Child Well-being” at the Population Association of America Annual Meeting, Chicago, IL.
4. **Costa, M. E.**, Beheim B., Trumble, B., Kaplan, H., Gurven, M. (2016, March). Socioeconomic Gradients Negatively Impact Longitudinal Child Nutritional status in Bolivian Amerindians. Presented in invited session “Women’s Status and Child Education, Health, and Well-being” at the Population Association of America Annual Meeting, Washington, D.C.
3. Gurven M. D., **Costa, M. E.**, Trumble, B., Beheim B., **Kaplan, H.**, **Gurven, M.** (2015, March). Costs of Reproduction in a High Fertility and Mortality Population presented in invited

paper symposium at The International Society for Evolution, Medicine, & Public Health Inaugural Meeting, Tempe, AZ.

2. Gurven M. D., **Costa, M.E.**, Eid, D, et al. (2014, May). Costs of Reproduction and Maternal Depletion in a High Fertility and Mortality Population presented in invited paper symposium at the Population Association of America Annual Meeting, Boston, MA.
1. Gurven M. D., **Costa, M.E.**, Trumble, B., Stieglitz, J., Beheim, B., Rodriguez, D. E., Hooper P. L., & Kaplan, H. (2014, April). Costs of Reproduction, Maternal Depletion, And Health in a High Fertility Bolivian Population presented in invited paper symposium at the Human Biology Association Annual Meeting, Calgary, Canada.

*Refereed Professional Conference Posters*

6. Dinkel K†, **Costa ME**, Stieglitz J, Kaplan H, Gurven M, Trumble BC. *Latrine use, boiled water, and bed nets: associations between biomarkers of immune status and public health in a subsistence population.* Human Biology Association 2019 (accepted).
5. Dinkel K†, **Costa ME**, Stieglitz J, Kaplan H, Gurven M, Trumble BC. *Associations between immune biomarkers and public health in a subsistence population.* American Association for the Advancement of Science (AAAS) 2019 (accepted).

† denotes mentored student author

4. **Costa, M. E., Eggum-Wilkens NE** (2018, October). *Parental Absence, Household Dynamics, and Child Wellbeing: Evidence from the Young Lives Study.* Poster session at the Society for Research in Child Development DEVSEC: Conference on the use of secondary and open source data in developmental science meeting, Tempe, Arizona.
3. **Costa, M. E.** (2016, April). *Grandparental Contribution to Child Nutritional Status: Evidence from the Young Lives Study.* Poster session at the American Association of Physical Anthropologists Annual Meeting, Atlanta, GA.
2. **Costa, M. E.,** Gurven, M. D. (2014, May). *Exceeding Ideal Family Size and Child Growth Outcomes in the Tsimane Amerindians of Bolivia.* Poster session at the Population Association of America Annual Meeting, Boston, MA.
1. **Costa, M. E.** (2013, April). *Siblings Count: The Extent and Effect of Double Counting in the Sibling Survival Method using the Demographic and Health Surveys.* Poster session at the Population Association of America Annual Meeting, New Orleans, LA.

*Invited Academic Presentations*

2. **Costa, M. E.** (2015, February). *Child Health in a Natural Fertility Population* Presentation for the Demography Club, Graduate Group in Demography, University of Pennsylvania.
1. **Costa, M. E.** (2014, December). *Child Growth in Birth Orders Exceeding Ideal Family Size in a High Fertility Population* Presentation for the Broom Center for Demography Lab Lunch, University of California, Santa Barbara.

**Impact – Media Appearances**

1. Interviewed in Gilger, L. (2018, February). “Analysis: More Women in Early 40s Who have never Married Have Kids.” KJZZ 91.5. <https://theshow.kjzz.org/content/607720/analysis-more-women-early-40s-who-have-never-married-have-kids>

## **Research Honors, Scholarships, and Awards**

NICHD Loan Repayment Program (\$70,000) recipient 2018-2020

Distinction in Sociology of the Family, Multigenerational Households, and the Life Course  
Comprehensive Exam, University of Pennsylvania, 2016

NICHD Training Grant, University of Pennsylvania #5T32 HD-007242 (\$29,270 stipend, tuition,  
and fees), 2015

University of Pennsylvania Graduate and Professional Student Association (GAPSA) Travel Grant  
(\$400, declined), 2014

RAND Summer Institute Scholarship, 2014

Grand Challenges Canada Early Child Development Research Group, PI Jere Behrman (\$12,000  
stipend), 2014

University of Pennsylvania School of Arts and Sciences Travel Subvention (\$300), 2013

University of Pennsylvania Graduate and Professional Student Association (GAPSA) Travel Grant  
(\$500), 2013

University of Washington Mary Gates Research Scholar (\$4,000), 2008

## **Teaching and Mentoring**

### **Undergraduate Courses Instructed**

*Population, (SOC 333)*, Sociology, Arizona State University, Spring 2017, Spring 2018

Description: This in-person course is an introduction to the study of population and demography, including the topics of fertility, mortality, migration, family formation, and family structure. Within these broad areas we consider the social, economic, and political implications of current trends, including population momentum, low fertility, the impact of international migration on receiving societies, population aging, racial classification, growing diversity in household composition and family structure, population and environmental degradation, and the link between population and development.

### **Teaching Assistantships**

*Health of Populations (SOC 111)*, Department of Sociology, University of Pennsylvania, Spring 2015

*Methods, Tools, and Data in Health Metrics and Evaluation (GH 590)*, Department of Global Health,  
University of Washington, Fall 2010

### **Readerships**

*Anthropological Demography and Life History Theory (ANTH 145)*, Department of Anthropology,  
University of California at Santa Barbara, Autumn 2014

### **Guest Lectures**

*Choosing a Graduate School*, Summer Undergraduate Program for Engaging in Research (SUPER). Arizona State University, Summer 2018.

*Issues in Morbidity and Mortality*, Anthropology 201: Epidemics and Outbreaks. Arizona State University, Autumn 2017.

*Fertility Measures*, Anthropology 145: Anthropological Demography and Life History Theory. University of California at Santa Barbara, Autumn 2014.

*Health Program Evaluation Methods: 10-session STATA Workshop* Department of Economics, University of Zambia, Lusaka. Economic and Policy Management Masters' Program, Summer 2011.

## **Teaching and Mentoring Honors, Scholarships, and Awards**

Nominee, Dean's Award for Distinguished Teaching by Graduate Students, University of Pennsylvania School of Arts and Sciences, Spring 2015

## **Mentoring**

*Undergraduate Student Honors Thesis*, Arizona State University School of Human Evolution and Social Change

- In progress, Katelyn Dinkel (Global Health)

*MPH Thesis*, University of Arizona Mel and Enid Zuckerman College of Public Health

- In progress, Phi Cao (MPH)

## **Professional Service**

### **Service to University**

Poster Judge, Institute for Social Science Research (ISSR) Graduate Poster Competition, ASU  
(December 2, 2016)

### **Service to Unit**

Committee Member, School Climate Committee, SSFD (2016-present)

Volunteer Coordinator, School Climate Committee, SSFD (2018-present)

Committee Member, DISI Postdoctoral Scholar Search Committee (2017-2018)

Committee Member, Summer Undergraduate Program for Engaging with Research (2017-present)

### **Professional Association Memberships**

Population Association of America, American Sociological Association, American Association of Physical Anthropologists, Society for Research in Child Development

### **Ad hoc Reviewer**

Population Review, BMC Nutrition

## **Public Service**

Committee Member, City of Tempe Complete Count Committee, 2018-2020

Subcommittee Chair, Community Outreach and Special Populations. City of Tempe Complete Count Committee, 2018-2020

## **Professional Development Activities**

Diversity and Inclusion Sciences Initiative (DISI) Workshop on Inclusive Teaching Practices – ASU workshop to incorporate inclusive teaching practices into existing courses. October 2017.

DREAMzone Ally Certification – ASU workshop designed to establish visible support network for undocumented students at ASU and other educational institutions. December 2016.

Course in College Teaching, University of Pennsylvania Center for Teaching and Learning, Spring 2015

## **Quantitative Skills**

### **Graduate-Level Coursework in Quantitative Methods**

#### *Demography*

- Demographic, Economic, and Social Interrelations (UPENN, H.P. Kohler)
- Population Processes, I, II (UPENN, I. Elo and K. Harknett)
- Basic Methods in Demography (UPENN, M. Guillot)
- Population Studies (LSHTM, B. Zaba and I. Timaeus)
- Population Dynamics and Projections (LSHTM, B. Zaba and I. Timaeus)
- Analyzing Survey and Population Data (LSHTM)
- Research methods in Demography (UW, S. Clark)

#### *Statistics*

- Event History Analysis (UPENN, P. Allison)
- Structural Equation Models (UPENN, P. Allison)
- Quantitative Methods I, II (UPENN, P. Allison)
- Extended Epidemiology (LSHTM)
- Statistical Methods in Epidemiology (LSHTM)
- Statistics for Epidemiology and Population Health (LSHTM)
- Research Design and Analysis (LSHTM)
- Clinical Epidemiology (UW)
- Medical Biometry I (UW)
- Sample Survey Techniques (UW)

### **Additional Training in Quantitative Methods and Design**

Berkeley Formal Demography Workshop: Fertility Patterns over Time. June 5-9, 2017 University of California, Berkeley, funded by NICHD R25HD083136.

Rand Summer Institute: Mini-Medical School for Social Scientists, July 7-8 2014.

Rand Summer Institute: Workshop on Aging (Demography, Economics, Psychology, and Epidemiology of Aging), July 9-10 2014.

**Statistical Programs:** *STATA*, *Mplus*, *R*

## Statistical Consulting Acknowledgements

Silk, Joan B., Robert M. Seyfarth, and Dorothy L. Cheney. "Quality versus quantity: do weak bonds enhance the fitness of female baboons?." *Animal Behaviour* 140 (2018): 207-211

Kaplan, Hillard, et al. "Coronary atherosclerosis in indigenous South American Tsimane: a cross-sectional cohort study." *The Lancet* 389.10080 (2017): 1730-1739

Lozano, Rafael, et al. "Progress towards Millennium Development Goals 4 and 5 on maternal and child mortality: an updated systematic analysis." *The Lancet* 378.9797 (2011): 1139-1165.

## References

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