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EDUCATION

University of Colorado, Boulder, CO 2012
Ph.D. in Geography
Dissertation: *A Model for Producing Large-Scale Spatially Explicit Future Population Scenarios*
Advisor: Fernando Riosmena, Ph.D.

University of Connecticut, Storrs, CT 2006
M.A. in Geography
Thesis: *Rural Out-Migration in Contemporary Iceland: Patterns, Problems, and Policies*
Advisor: William Berentsen, Ph.D.

University of Connecticut, Storrs, CT 1998
B.A. in Economics
B.A. in Communications Sciences

PROFESSIONAL EXPERIENCE

Baruch College, Marxe School of Public and International Affairs, New York, NY
Assistant Professor 9/2017 – Current

World Bank Climate Policy Team, Washington DC
Research Consultant 6/2016 – Current

City University of New York Institute for Demographic Research, New York, NY
Postdoctoral Fellow 10/2013 – 8/2017

National Center for Atmospheric Research, Integrated Assessment Modeling Group, Climate and Global Dynamics Division, Boulder, CO
Visiting Scientist 10/2013 – 10/2016
Postgraduate Scientist 1/2009 - 10/2013

Institute of Behavioral Science Population Program, University of Colorado, Boulder, CO
Research Assistant 6/2005 – 5/2008

PUBLICATIONS

Peer-reviewed journals:

- Chen, K., Horton, R.M., Bader, D.A., Lesk, C., Jiang, L., **Jones, B.**, Zhou, L., Cheng, X., Bi, J., and Kinney, P.L. (2017) Impact of climate change on heat-related mortality in Jiangsu Province, China. *Environmental Pollution*, doi: 10.1016/j.envpol.2017.02.011.
- Jones, B.** and O'Neill, B.C. (2016) Spatially explicit global population scenarios consistent with the Shared Socioeconomic Pathways. *Environmental Research Letters* 11(8):084003. doi:10.1088/1748-9326/11/8/084003.
- Anderson, G.B., Oleson, K.W., **Jones, B.**, and Peng, R.D. (2016) Projected trends in high-mortality heatwaves under different scenarios of climate, population, and adaptation in 82 US communities. *Climatic Change*, 16pp. doi:10.1007/s10584-016-1779-x.
- Anderson, G.B., Oleson, K.W., **Jones, B.**, and Peng, R.D. (2016) Classifying heatwaves: developing health-based models to predict high-mortality versus moderate United States heatwaves. *Climatic Change*, 15pp. doi:10.1007/s10584-016-1776-0.
- Parkinson, S.C., Johnson, N., Narasimha, D.R., **Jones, B.**, van Vliet, M.T.H., Fricko, O., Djilali, N., Riahi, K., and Flörke, M. (2016) Climate and human development impacts on municipal water demand: A spatially explicit global modeling framework. *Environmental Modelling & Software* 85:266-278. doi: 10.1016/j.envsoft.2016.08.002.
- Monaghan, A.J., Sampson, K. M., Steinhoff, D.F., Ernst, K.C., Ebi, K.L., **Jones, B.**, and Hayden, M.H. (2016) The potential impacts of 21st century climatic and population changes on human exposure to the virus vector mosquito *Aedes aegypti*. *Climatic Change*, 14pp. doi:10.1007/s10584-016-1679-0.
- Jones, B.**, O'Neill, B.C., McGinnis, S.A., McDaniel, L., Tebaldi, C., and Mearns, L. (2015) Future population exposure to U.S. heat extremes. *Nature Climate Change*, 5: 652-655, doi:10.1038/nclimate2631.
- Oleson, K.W., Anderson, G.B., **Jones, B.**, McGinnis, S.A., and Sanderson, B. (2015) Avoided climate impacts of urban and rural heat and cold waves over the U.S. using large climate model ensembles for RCP8.5 and RCP4.5. *Climatic Change*, 16pp. doi:10.1007/s10584-015-1504-1.
- Jones, B.** (2014) Assessment of a gravity-based approach to constructing future spatial population scenarios. *The Journal of Population Research*, 31(1): 71-95.
- Jones, B.** and O'Neill, B.C. (2013) Historically grounded spatial population projections for the continental United States. *Environmental Research Letters*, 8(4):044021. doi:10.1088/1748-9326/8/4/044021
- Ruijven, B., Levy, M., Agrawal, A., Biermann, F., **Jones, B.**, et al. (2013) Enhancing the relevance of shared socioeconomic pathways for climate change impacts, adaptation and vulnerability research. *Climatic Change*, 1-14. doi:10.1007/s10584-013-0931-0.
- Rogers, A. and **Jones, B.** (2008) Inferring directional migration propensities from the migration propensities of infants in the United States. *Mathematical Population Studies*, 15(3):182-211.

Rogers, A., **Jones, B.**, Partida, V., and Muhidin, S. (2007) Inferring migration flows from the migration propensities of infants: Mexico and Indonesia. *Annals of Regional Science*, 41(2):443-465.

News, Reviews, Technical Notes, and Working papers:

Jones, B. (2017) Natural disasters: Cities build their vulnerability. *Nature Climate Change* 7: 237-238.

Jones, B. (2012) Assessment of the potential-allocation downscaling methodology for constructing spatial population projections. NCAR Technical Note NCAR/TN-487+STR, 52 pp.
(Available at: <http://opensky.library.ucar.edu/collections/TECH-NOTE-000-000-000-852>)

Rogers, A., **Jones, B.**, and Ma, W. (2008) Repairing the migration data reported by the American Community Survey. Boulder: University of Colorado at Boulder, Institute of Behavioral Science Population Program, Working Paper. (Available at: <http://www.colorado.edu/IBS/pubs/pop/pop2008-0001.pdf>)

GRANTS AND AWARDS

Grants:

Climate change, human mobility, and securing resilience. World Bank, 2017, Co-Principal Investigator (\$83,915)

Developing new models to understand human vulnerability to climate-related hazards at multiple scales. NSF Science, Engineering, and Education for Sustainability (SEES) Award, 2013-2016, Principal Investigator (\$531,039.00).

Multi-scale determinants of spatial population distributions. NSF Interdisciplinary Behavioral and Social Science Research (IBSS), 2014-2017, Co-Principal Investigator with Balk, D, O'Neill, B, and Montgomery, M. (~\$1,000,000).

Demographic tools for climate change and environmental assessments. Department of Energy, 2012-2016, Co-Investigator with (PI) O'Neill, B and (Co-I) Jiang, L (~\$325,000.00).

Awards:

Department of Geography Excellence in Graduate Teaching Award (2010).

TEACHING

Baruch College, New York, New York

Instructor:

PAF 9185: Environmental Policy	Fall 2017
PAF 3442: Cities and Sustainability	Fall 2017
PAF 9172: Research and Analysis II	Fall 2015

University of Colorado, Boulder, Colorado

Instructor:

GEOG 1982: World Regional Geography	Spring 2010
GEOG 3023: Statistics for Earth Sciences, Lab	Fall 2009

GEOG 5023: Introduction to Quantitative Methods, Lab	Spring 2007, 2008
GEOG 4103: Introduction to Geographic Information Systems, Lab	Spring 2006
<i>Teaching Assistant:</i>	
GEOG 1992: Human Geographies	Fall 2010
GEOG 3612: Geography of American Cities	Spring 2009
GEOG 4501: Water Resources & Management in the US West	Fall 2008
GEOG 5732: Population Geography	Fall 2005, 2006, 2007

University of Connecticut, Storrs, Connecticut

Teaching Assistant:

GEOG 1700: World Regional Geography	Spring 2004
GEOG 2300: Introduction to Physical Geography	Fall 2003

SELECTED TALKS, PRESENTATIONS, AND COLLOQUIA

Invited Talks:

Migration Modeling using Global Population Projections. Workshop on Data and Methods for Modelling Migration Associated with Climate Change, Paris, France. December 2016.

Measuring Cities: Implications for Climate-Related Research. Marron Institute of Urban Management, New York University, New York, NY. November 2016.

Avoiding Population Exposure to Heat-Related Extremes: Demographic Change vs. Climate Change. University of Delaware Department of Geography, Newark, DE. October 2016.

Spatially Explicit Global Population Scenarios Consistent with the Shared Socioeconomic Pathways. Oak Ridge National Laboratory, Oak Ridge, TN. May 2016.

Combining Satellite and Social Science Data in the Urban Century. ENVI Analytics Symposium. Boulder, CO. August 2015.

Urban Change and Well-being: GHSL Applications with Survey & Census Data. European Commission Joint Research Centre 1st Urbanization and Europe Workshop. Ispra, Italy. May 2015.

Spatial Population Projections for the Shared Socioeconomic Pathways. Intergovernmental Panel on Climate Change Expert Meeting on Scenarios. International Institute for Applied Systems Analysis. Vienna, Austria. May 2015

The Global Human Settlement Layer: Preliminary Research Applications. The World Bank. Washington, DC. March 2015

Spatially Explicit Future Population Projections: Geographic and Demographically Informed Econometric Approaches. European Commission Joint Research Centre Institute for Prospective and Technological Studies 3rd Regional Modelling Workshop. Seville, Spain. December 2014.

Understanding a continuum: Human Settlements, Cities, and Urban Classification using GHSL with Survey and Census Data. European Commission Joint Research Centre 1st Global Human Settlements Workshop. Ispra, Italy. October 2014.

Projecting Future Exposure to Climate-Related Hazards: Extreme Heat. Louisiana State University School of the Coast and Environment Seminar Series, Baton Rouge, LA. September 2014. Available at: <http://coastandenvironment.lsu.edu/seminars/2014/seminar09-19-2014.P2G/NewStandardPlayer.html?plugin=HTML5>

Data Challenges for Spatial Population Projections. United States Global Change Research Program Workshop: Towards Scenarios of US Demographic Change, Rockville, MD. June 2014. Available at: http://www.globalchange.gov/sites/globalchange/files/Jones_June2014.pdf

Global-Scale Spatial Population Scenarios: Methods and Applications in the IAV Community. IHDP Urbanization and Global Environmental Change Programme and the Program for Urban Global Systems at the CUNY Institute for Sustainable Cities Workshop: Global Spatial Population Projections: What Can Be Done Now? Hunter College, New York, NY. September 2013.

Historically Grounded Spatial Population Scenarios for the Continental United States. NASA Goddard Institute for Space Studies, Columbia University, New York, NY. June 2013.

A Gravity-Based Approach to Modeling Spatial Population Scenarios. Pacific Northwest National Laboratory and the University of Maryland Joint Global Change Research Institute, College Park, MD. January 2013. Available at: www.globalchange.umd.edu/events/jones-2013-01-29/

Alternative Approaches to Modeling Spatial Population Scenarios: Results from the United States. MIT Joint Program on the Science and Policy of Global Change, Cambridge, MA. August 2012.

An Improved Method for Projecting Spatial Population. Stanford University Energy Modeling Forum Workshop on Climate Change Impacts and Integrated Assessment: Critical Issues in Climate Change, Snowmass Village, CO. July 2012.

Scholarly Presentations and Colloquia:

Future Population Exposure to U.S. Heat Extremes. French Institute for Demographic Studies International Young Researchers Conference: The Impacts and Challenges of Demographic Change, Paris, France. September 2016.

Spatially Explicit Global Population Scenarios Consistent with the Shared Socioeconomic Pathways. Annual Meeting of the Association of American Geographers, San Francisco, CA. March 2016.

A multifaceted Approach to Understanding Dynamic Urban Processes: Satellites, Surveys, and Censuses. American Geophysical Union Fall Meeting. San Francisco, CA. December 2014.

Population Exposure to Heat-Related Extremes: Demographic Change vs. Climate Change. Integrated Assessment Modeling Group Annual Meeting, National Center for Atmospheric Research, Boulder, CO. July 2014.

Determinants of Uncertainty in Population Exposure to Climate-Related Extremes. Annual Meeting of the Population Association of America, Boston, MA. May, 2014.

Historically Grounded Spatial Population Scenarios for the Continental United States. Annual Meeting of the Population Association of America, Boston, MA. May, 2014.

- Population Exposure to Climate Hazards: Extreme Heat.* Integrated Assessment Modeling Group Annual Meeting, National Center for Atmospheric Research, Boulder, CO. August 2013.
- Spatial Population Projections Based on the Shared Socioeconomic Pathways: Thailand.* Integrated Assessment Modeling Group Annual Meeting, National Center for Atmospheric Research, Boulder, CO. August 2013.
- Using Demographic Potential to Model Spatial Population Scenarios.* The NCAR Climate and Global Dynamics Division Seminar Series, National Center for Atmospheric Research, Boulder, CO. February 2012.
- A Gravity-Based Approach to Constructing Spatial Population Scenarios.* Annual Meeting of the Association of American Geographers, Washington, DC. April 2010.
- Modeling Spatial Population Scenarios.* Land Model/Biogeochemistry Working Group Meeting, National Center for Atmospheric Research, Boulder, CO. February 2010.
- Repairing the Migration Data Reported by the American Community Survey.* Annual Meeting of the Western Regional Science Association, Kona, HI. February 2008.
- Progress in Repairing the Migration Data Reported by the American Community Survey.* Annual Meeting of the Pacific Regional Science Conference Organization, Vancouver, BC. May 2007.
- Inferring Directional Migration Propensities from the Migration Propensities of Infants in the United States.* Annual Meeting of the Association of American Geographers, San Francisco, CA. April 2007.
- Inferring Migration Flows from the Migration Propensities of Infants: Mexico and Indonesia.* Annual Meeting of the Western Regional Science Association, Santa Fe, NM. February 2006.
- A Method for Benchmarking Age-Specific Inter-Regional Migration: The Case of Iceland.* Annual Meeting of the Association of American Geographers, Great Plains – Rocky Mountain Division, Laramie, WY. September 2005.
- Rural Out-Migration in Contemporary Iceland: Patterns, Problems, and Policies.* Annual Meeting of the Association of American Geographers, Denver, CO. April 2005.

RESEARCH CITED IN THE MEDIA

- More heat waves in store for more Americans.* May 18, 2015, CBS News.
<http://www.cbsnews.com/news/more-heat-waves-in-store-for-more-americans/>
- Study: Many more Americans will feel high heat as global warming, population shifts combine.* May 18, 2015, US News & World Report.
<http://www.usnews.com/news/science/news/articles/2015/05/18/future-for-warming-us-not-just-the-heat-but-the-humanity>
- Americans face six-fold hike in exposure to extreme heat by 2070.* May 18, 2015, New Scientist.
<http://www.newscientist.com/article/dn27544-americans-face-sixfold-hike-in-exposure-to-extreme-heat-by-2070.html#.VYAIMEaMC8A>

Exposure of US population to extreme heat could quadruple by mid-century. May 18, 2015, Science Daily. <http://www.sciencedaily.com/releases/2015/05/150518135143.htm>

PROFESSIONAL AFFILIATIONS

Association of American Geographers (AAG)
American Geophysical Union (AGU)
International Union for the Scientific Study of Population (IUSSP)
Population Association of America (PAA)
Population-Environment Research Network (PERN)
Western Regional Science Association (WRSA)

SERVICE

Reviewer:

Mathematical Population Studies, Nature Climate Change, Population and Environment, Proceedings of the National Academy of Sciences, Spatial Demography, Sustainability, Urban Science

Expert Panelist:

Population-Environment Research Network cyber-seminar: The IPCC's New Scenario Process: Shared Socioeconomic Pathways.

Community Service:

Connecticut Geographic Alliance: Liaison between University of Connecticut Geography Department and Connecticut public school teachers (September 2004 - May 2005).