

## BRYAN JONES, Ph.D.

### Office Address:

CUNY Institute for Demographic Research  
Baruch College  
One Bernard Baruch Way, Box D-901  
New York, NY 10010-5585

Email: [bryan.jones@baruch.cuny.edu](mailto:bryan.jones@baruch.cuny.edu)

Website: <https://cuny.academia.edu/BryanJones>

[https://www.researchgate.net/profile/Bryan\\_Jones14](https://www.researchgate.net/profile/Bryan_Jones14)

Office Phone: (646)660-6870

## EDUCATION

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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

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*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**

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### *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**

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*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**

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*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 1<sup>st</sup> 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 3<sup>rd</sup> 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 1<sup>st</sup> 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](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/](http://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**

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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**

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### *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).