CASCADE P. TUHOLSKE

Postdoctoral Research Scientist Center for International Earth Science Information Network (CIESIN) Earth Institute | Columbia University cascade@ucsb.edu | www.tuholske.com | +1 (805) 698-2364

EDUCATION

Ph.D., Geography, Uni Committee: Dissertation Title:	versity of California, Santa Barbara Kelly Caylor (chair), Chris Funk, Stuart Sweeney, Tom Evans Linking Food Security, Urbanization, & Climate Change in Africa	2020
M.A., Geography, Univ	versity of California Santa Barbara	2016
Committee:	David López-Carr (chair), Dar Roberts, Susan Cassels	
Thesis Title:	Climate Change versus Human Population and Development: Hurrican Urbanization, and Tourism Impacts on Land Change in the Tropical Isla Ecosystems of Roatán, Honduras	-
B.A., International Aff	airs, The George Washington University	2010
Honors:	Special Honors, Elliott School of International Affairs; magna cum laud	2
Concentrations:	Global Public Health and Conflict and Security	
ACADEMIC AFFILIATIO	INS	
Postdoctoral Research Scientist, Earth Institute, Columbia University 2020 – Present Advisors: Robert Chen, Alex de Sherbinin		

Graduate Research Assistant, Earth Research Institute, UCSB	2017–2020
Graduate Student Researcher, Climate Hazards Center, UCSB	2019–2020
Graduate Research Assistant, National Center for Ecological Analysis and Synthesis, UCSB	2019
Graduate Research Associate, Broom Center for Demography, UCSB	
Instructor of Record, Department of Geography, UCSB	
Teaching Assistant, Department of Geography, UCSB	

HONORS, AWARDS, AND FELLOWSHIPS

2020	Earth Institute Postdoctoral Fellowship Program, Columbia University	\$149,090
2020	National Science Foundation SBE Postdoctoral Fellowship (declined)	\$140,000
2020	UCSB Department of Geography Excellence in Research Award	\$500
2019	UCSB President's Dissertation Year Fellowship	\$24,500
2019	UCSB Faculty Senate Graduate Travel Fellowship	\$1,350
2019	Earth Research Institute Graduate Student Conference Travel Fellowship	\$800
2019	Jack & Laura Dangermond Geography Travel Scholarship	\$1,000
2018	UCSB Dept. of Geography Graduate Summer Research Funding	\$2,400
2018	Earth Research Institute Graduate Student Conference Travel Fellowship	\$800
2018	Jack & Laura Dangermond Geography Travel Scholarship	\$1,400
2017	Earth Research Institute Graduate Fellowship	\$1,500
2017	Graduate Student Research and Travel Grant, Broom Center for Demography	\$2,000

2016	U.S. Borlaug Fellows in Global Food Security	\$23,835
2016	Graduate Student Research and Travel Grant, Broom Center for Demography	\$1,995
2016	Jack & Laura Dangermond Geography Travel Scholarship	\$500
2015	Jack & Laura Dangermond Geography Travel Scholarship	\$600
2015	Graduate Student Research and Travel Grant, Broom Center for Demography	\$1,000
2012	Fulbright Seminar on the European Union and NATO, Brussels, Belgium all	expenses
2011	Fulbright Scholar - English Teaching Assistant, Sliven, Bulgaria	\$14,000

PEER-REVIEWED PUBLICATIONS

* equal authorship		
In Prep	Tuholske, C. , Funk, C., Caylor, K., Verdin, A., Evans., T., Sweeney, S., & Grace, K. Urban Population Exposure to Extreme Heat.	
Submitted	*Halpern, B., * Tuholske, C., Blasco, G., Villasenor, J. C., Frazer, M., & Caylor, K. Mapping global sources and impacts of sewered, septic and direct wastewater in coastal ecosystems. <i>Science Advances.</i>	
2020	Verdin, A., Chris Funk, C., Peterson, P., Landsfeld, M., Tuholske, C. , & Grace, K. Development and validation of the CHIRTS-daily quasi-global high-resolution daily temperature data set. <i>Scientific Data</i> . (In Print).	
2020	Zimmer, A., Guido, Z., Tuholske, C. , Pakalniskis, A., Lopus, S., Caylor, K., & Evans, T. Variability of Urban Population Growth Trajectories in Southern Africa. <i>Landscape</i> <i>Ecology</i> , 1-16.	
2020	Blekking, J., Waldman, K., Tuholske, C., Evans, T. The Role of Employment in Urban Food Security in Sub-Saharan Africa. <i>Applied Geography, 114,</i> 102131.	
2020	Tuholske, C. , Andam, K., Blekking, J., Evans, T., & Caylor K. Comparing Measures of Urban Food Security in Accra, Ghana. <i>Food Security</i> , 1-15.	
2019	Tuholske, C., Caylor, K., Evans, T., & Avery, R. Variability in urban population distributions across Africa. <i>Environmental Research Letters</i> , <i>14</i> (8).	
2018	Brissett, D. I., Tuholske, C., Allen, I. E., Larios, N. S., Mendoza, D. J., Murillo, A. G., & Bloch, E. M. Zika Virus: Knowledge Assessment of Residents and Health-Care Providers in Roatán, Honduras, following an Outbreak. <i>The American journal of tropical medicine and hygiene</i> , <i>99</i> (1), 211-215.	
2017	Tuholske, C. , Tane, Z., López-Carr, D., Roberts, D., & Cassels, S. Thirty Years of Land Use/Cover Change in the Caribbean: Assessing the Relationship between urbanization and Mangrove Loss in Roatán, Honduras. <i>Applied Geography</i> , <i>88</i> C, 84-93.	
2017	Blekking, J., Tuholske, C., & Evans, T. Adaptive Governance and Market Heterogeneity: An Institutional Analysis of Urban Food Systems in Sub-Saharan Africa. <i>Sustainability,</i> 9(12).	

- 2017 Brooks, T., Roy-Burman Bloch, A., **Tuholske, C.**, Busch, M., Bakkour, S., Stone, M., Linnen, J. M., Gao, K., Coleman, J., & Bloch, E. Real-Time Evolution of Zika Virus Disease Outbreak, Roatán, Honduras. *Emerging Infectious Disease-CDC*, *23*(8).
- 2015 **Tuholske, C.,** López-Carr, D., & Roberts, D. Anthropogenic impacts on Roatán, Honduras: 30 Years of land-cover and land-use change. In *Plurimondi. An International Forum for Research and Debate on Human Settlement, 8*(16), 179-190.

OTHER PUBLICATIONS

*Book Chapter +NGO/Government Report

- 2018[†] **Tuholske, C.**, Andam, K., Blekking J., Evans, T., & Caylor, K. Comparative Estimates of Urban Food Security: Evidence from Accra, Ghana. Washington, DC: International Food Policy Research Institute.
- 2018* Ervin D., **Tuholske, C**., and D. López-Carr. "Global Hunger." in *Food and Place: A Critical Exploration*, edited by Pascale Joassart-Marcelli and Fernando Bosco. Washington, DC: Rowman and Littlefield
- 2017[†] Food and Agriculture Organization of the United Nations. 2017 The State of Food and Agriculture leveraging Food Systems for Inclusive Rural Transformation. Rome: FAO.

PRESENTATIONS, TALKS, AND POSTERS

2019	Tuholske, C., Funk, C., Caylor, K., Evans, T., and Sweeney, S. A Fine-Resolution, Global Comparison of Urban Exposure to Extreme Temperatures. Paper presented at the 2019 American Geophysical Association Fall Meeting. San Francisco, CA. 9-13 Dec.
2019	Tuholske, C., and K. Caylor. Inventorying population pressures across Sub-Saharan Africa. Poster Presented at The Global Land Programme Open Science Meeting 2019. Bern, Switzerland, 24 -26 April.
2019	Tuholske, C. Linking Food Security, Urbanization, and Climate Change in Sub-Saharan Africa. Talk given at the Stanford Center for Food Security and the Environment. Palo Alto, CA, 28 Jan.
2018	Tuholske, C. , and K. Caylor. Fusing Remote Sensing and Demography to Assess which Sub-Saharan African Cities Are Growing the Fastest. Paper presented at the 2018 American Geophysical Association Fall Meeting. Washington, DC. 10-14 Dec.
2018	Tuholske, C. , Andam K., Blekking J., Evans. T, and Caylor K. Towards linking climate change and urban food security: Evidence from Accra, Ghana. Paper presented at the 2018 Graduate Climate Conference. Pack Forest, WA. 2-4 Dec.
2018	Tuholske, C. , Andam K., Blekking J., Evans. T, and Caylor K. Urban Food Security and Nutritional Challenges in West Africa: Evidence from Accra, Ghana. Poster presented at the 2018 UC Global Health Day, UC San Diego, CA. 22 April.
2018	Tuholske, C. Andam, K., Blekking, J., Evans, T., and Caylor, K. Towards Assessing Urban

	Food Security and Nutrition in West Africa. Paper presented at the 2018 American Association of Geographers Annual Meeting, New Orleans, LA. 9-13 April.
2016	Tuholske, C . The Effects of Tourism on Land Cover and Land Use Change in Roatán, Honduras. Paper presented at the 2016 American Association of Geographers Annual Meeting Annual Meeting, San Francisco, CA. 28 March – 2 April.
2015	Tuholske, C. , and T. Brooks. Bridging Epidemiology and Remote Sensing: A Case Study of Dengue Fever and Land Use and Land Cover Change in Roatán, Honduras. Poster presented at American Geophysical Association Fall Meeting, AGU, San Francisco, CA. 3-7 Dec.
2015	Tuholske, C. Reconciling Space and Place to Reveal the Determinate of Health: Integrated Research in Roatán, Honduras. Paper presented at SPATIAL 2015 Spatial Information on Human Health. The University of California, Santa Barbara. Santa Barbara, CA. 9-11 Dec.
2015	Tuholske, C., López-Carr, D., Roberts, D. Anthropomorphic impacts on Roatán, Honduras: 30 Years of Land-Cover and Land-Use Change. Paper presented at The XIX European Colloquium in Theoretical and Quantitative Geography (ECTQG2015). Technical University of Bari, Italy, 3-7 Sep.
2015	Ervin, D., Lopez-Carr, D., Hodges, C, Miller, K, and Tuholske, C . The Geographic Advantage in Coupled Migration-Health Research. Paper presented at the University of California, Los Angeles Blum Center on Poverty and Health in Latin America Workshop on Migration and Health, Los Angeles, CA, 6 March.
2014	Tuholske C., López-Carr, D., Elwell, T., Ervin, D, Miller, K.M. Human Health and Human- Environment Dynamics. Paper presented at the Roatán Inter-Professional Program Symposium. Global Health Sciences, University of California, San Francisco, CA. November 17.

TEACHING EXPERIENCE

Instructor of Record, Department of Geography, University of California Santa Barbara		
Geography of Surfing (GEOG 20)	Winter 2018, Summer 2019	
Teaching Assistant, Department of Geography, University of C		
Geography of Surfing (GEOG 20)	Winter 2015, 2016, 2017	
Coastal Pollution (GEOG 132)	Fall 2017, 2018	
Population Geography (GEOG 141A)	Spring 2016, 2017	
Urban Geography (GEOG 108)	Fall 2016	
People, Place & the Environment (GEOG 05)	Fall 2014, Spring 2015, Fall 2015	
Professor de Inglés, Centro de Estudios Superiores de la Industria Farmacéutica, Madrid		
Graduate-level Professional English classes 201		

Fulbright Scholar – English Teaching Assistant, U.S. Fulbright Program, Sliv	ven Bulgaria
High school English classes	

2011-2012

RELEVENT EMPLOYMENT EXPERIENCE

Intern, The Food and Agriculture Organization of the United Nations, Rome 2016

- Penned sections on urbanization for FAO's 2017 State of Food and Agriculture Report
- Researched rural-urban food security issues for the United Nation's Committee on Food Security policy negotiations
- **Director of Organizing,** Montana Abolition Coalition, The ACLU of Montana, Missoula MT 2012 2013
 - Designed and implemented grassroots efforts in targeted legislative districts to abolish the death penalty during the 2013 Montana Legislature

Associate Intern, The Office of Senator Max Baucus, Washington, DC 2010

- Conducted constituent research, outreach, and database maintenance
- First interned (unpaid) in 2008

PRESS

Pacific Standard Magazine "What Happens When a Tiny Island Becomes a Tourist Destination?" Feb. 2016NASA Earth Observatory "How Tourism Changed the Face of Roatán"Feb. 2016

FIELD EXPERIENCE

2017	Urban food security survey, Accra, Ghana
2017	Climatological sensor instillation and urban food security survey, Zambia
2015	Land cover & epidemiological research, Roatán, Honduras
2011 – 2012	Piloted study on student perceptions of the European Union, Sliven, Bulgaria
2009	Community-based disease surveillance program assessment, northern Ghana