\$2,400

CASCADE P. TUHOLSKE

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

EDUCATION

2018

Ph.D., Geograp	ohy, Univ	versity of California, Santa Barbara	2020
Committee	2:	Kelly Caylor (chair), Chris Funk, Stuart Sweeney, Tom Evans	
Dissertatio	n Title:	Linking Food Security, Urbanization, & Climate Change in Africa	
M.A., Geograp	hy, Univ	rersity of California Santa Barbara	2016
Committee		David López-Carr (chair), Dar Roberts, Susan Cassels	
Thesis Title	? :	Climate Change versus Human Population and Development: Hur	
		Urbanization, and Tourism Impacts on Land Change in the Tropica Ecosystems of Roatán, Honduras	al Island
B.A., Internation	onal Affa	airs, The George Washington University	2010
Honors:		Special Honors, Elliott School of International Affairs; magna cum	laude
Concentrat	tions:	Global Public Health and Conflict and Security	
RESEARCH AFF	ILIATIO	NS	
		Scientist, Earth Institute, Columbia University	2020 – Present
		nen, Alex de Sherbinin	
		sistant, Earth Research Institute, UCSB	2017–2020
		earcher, Climate Hazards Center, UCSB sistant, National Center for Ecological Analysis and Synthesis, UCSB	2019–2020
		sociate, Broom Center for Demography, UCSB	2014–2020
HONORS, GRA	NTS, AN	D FELLOWSHIPS	
LOI submitted		al Ocean and Atmospheric Administration: Climate Program Office Extreme Heat Risk Initiative Competition, FY2021, co-PI	\$250,000
Pending		al Science Foundation Human-Environment and Geographical es Program (nsf20547), co-I	\$398,268
2020	Earth I	nstitute Postdoctoral Fellowship Program, Columbia University	\$149,090
2020	Nation	al Science Foundation SBE Postdoctoral Fellowship (declined)	\$140,000
2020	UCSB E	Department of Geography Excellence in Research Award	\$500
2019	UCSB P	resident's Dissertation Year Fellowship	\$24,500
2019	UCSB F	aculty Senate Graduate Travel Fellowship	\$1,350
2019	Earth R	Research Institute Graduate Student Conference Travel Fellowship	\$800
2019	Jack &	Laura Dangermond Geography Travel Scholarship	\$1,000

UCSB Dept. of Geography Graduate Summer Research Funding

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
2011	Fulbright Scholar - English Teaching Assistant, Sliven, Bulgaria	\$14,000

PEER-REVIEWED PUBLICATIONS		
* equal authorship	p	
In prep	Tuholske, C., Gaughan, A., de Sherbinin, A., Stevens, F., Sorichetta, A., Hultquist, C., & Yetman, G. Comparison of Gridded Population Data to Track UN Sustainable Development Goals. <i>Suitability</i> . (invited submission).	
In review	*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>Proceedings of the National Academy of Sciences</i> .	
In revision	Tuholske, C. , Caylor, K., Funk, C., Verdin, A., Sweeney, S., Grace, K., Peterson, P., & Evans, T. Global Urban Population Exposure to Extreme Heat. <i>Proceedings of the National Academy of Sciences</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> , <i>7</i> , 303.	
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 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> , 88C, 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> , <i>9</i> (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. <i>Emerging Infectious Disease-CDC</i> , <i>23</i> (8).

OTHER PUBLICATIONS

*Book Chapter	†NGO/Government Report ^Conference proceeding
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 <i>Food and Place: A Critical Exploration</i> , 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.
2015^	Tuholske, C., López-Carr, D., & Roberts, D. Anthropogenic impacts on Roatán, Honduras: 30 Years of land-cover and land-use change. In <i>Plurimondi. An International Forum for Research and Debate on Human Settlement</i> , 8(16), 179-190.

TEACHING EXPERIENCE

Co-Instructor, Department of Earth & Environmental Sciences, Columbia University

Threats to Urban Food Security: Climate, Cost, & COVID (graduate reading seminar) Spring 2021

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 California, Santa Barbara

Geography of Surfing (GEOG 20)

Coastal Pollution (GEOG 132)

Population Geography (GEOG 141A)

Urban Geography (GEOG 108)

People, Place & the Environment (GEOG 05)

Winter 2015, 2016, 2017

Fall 2017, 2018

Spring 2016, 2017

Fall 2014, Spring 2015, Fall 2015

Professor de Inglés, Centro de Estudios Superiores de la Industria Farmacéutica, Madrid Graduate-level Professional English classes

2013-2014

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

2011-2012

PRESENTATIONS, TALKS, AND POSTERS

*: ': '	
*Invited	
2020*	Tuholske, C. , Gaughan, A. E., de Sherbinin, A. M., Stevens, F. R., Sorichetta, A., Yetman, G., Huyck, C., & Chen, R. S. A Comparison of Gridded Population Data Products in Disaster Response. eLightning talk given at 2020 American Geophysical Association Fall Meeting. Everywhere, 11 Dec.
2020	Tuholske, C. , Caylor, K., Funk, C., Verdin, A., Sweeney, S., Grace, K., Peterson, P., & Evans, T. Global Urban Population Exposure to Extreme Heat. Talk given at 2020 American Geophysical Association Fall Meeting. Everywhere, 11 Dec.
2020*	Tuholske, C. Global Urban Population Exposure to Extreme Heat. Talk given at International Research Institute for Climate and Society, Columbia University, 29 Sep.
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.
- 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.
- 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.
- 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.
- 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.

SERVICE & DIVERSITY, EQUITY and INCLUSION ADVANCEMENT

Contributor, GEO Health Community of Practice Small Working Group

2020 - Present

 Working group to support use of earth observations to understand, predict, and reduce health risks from heat across time scales.

Member, Steering Committee for EO Toolkit for Sustainable Cities and Communities 2020 – Present

- Working group to assist the UN-Habitat's Global Urban Observatory (GUO) specialized statistics Toolkit development to track UN Sustainable Development Goal 11.

Mentor, Graduate Scholar Program, University of California, Santa Barbara

2019 - 2020

- Mentored 3 first-year PhD students from historically under-represented groups in academia.

Reviewer Food Security, African Geographic Review, Population and Environment

PRESS

Pacific Standard Magazine "What Happens When a Tiny Island Becomes a Tourist Destination?" Feb. 2016 **NASA 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

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

PROFESSIONAL AFFILIATIONS

The American Geophysical Union, member	2015 – Present
The American Association of Geographers, member	2016 – Present
The Global Land Programme, member	2019 – Present