

ELEANOR CATHERINE STOKES

Ph.D. Candidate

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Research Interests

urbanization dynamics, urban structure and infrastructure, urban climate mitigation and adaptation, VIIRS nighttime lights, environmental design, remote sensing science, GIS

Education

Ph.D., Environmental Studies, Urbanization and Global Change, Yale University, 2018

M.S., Mechanical Engineering, Massachusetts Institute of Technology, 2008

A.B., Mathematics and Studio Art, Dartmouth College, 2004

Peer Reviewed Publications

2016

EC Stokes & KC Seto. Climate change and Urban Land Systems: Bridging the gaps between Urbanism and Land Science. *Journal of Land Use Science*, in press.

KC Seto, SJ Davis, RB Mitchell, **EC Stokes**, G Unruh, & D Ürge-Vorsatz. Conceptualizing and Unlocking Carbon Lock-In. *Annual Review of Environment and Resources*, 41(1).

2015

M Román and **EC Stokes**. Holidays in lights: tracking cultural patterns in demand for energy services, *Earth's Future*.

2014

P Romero-Lankao, K Gurney, KC Seto, M Chester, R Duren, S Hughes, L Hutyra, P Marcotulio, L Baker, C Kennedy, E Larson, S Pincetl, D Runfola, L Sanchez Peña, G Shrestha, A Sarzynski, N Grimm, J Sperling, **EC Stokes**. Towards a more integrated understanding of urbanization, urban areas and the carbon cycle, *Earth's Future*, 2(10). 515-532.

M Chester, J Sperling, **EC Stokes**, B. Allenby, K. Kockelman, C. Kennedy, L. Baker, J. Keirstead, C. Hendrickson. Positioning Infrastructure and Technologies for Low-carbon Urbanization. *Earth's Future*, 2(10), 533-547.

2008

EC Stokes, N Gayeski, M Andersen. (2008). Estimating Spectral Information of Complex Fenestration Systems in a Video- Goniophotometer, *Lighting Research and Technology*, 40 (4), 269-285.

M Andersen, **EC Stokes**, N Gayeski, C Browne. (2010). Using Digital Imaging to Assess Spectral Solar-Optical Properties of Complex Fenestration Materials: A New Approach in Video- Goniophotometry, *Solar Energy*, 84 (4), 549-562.

N Gayeski, **EC Stokes**, M Andersen, Using Digital Cameras as Quasi-Spectral Radiometers to Study Complex Fenestration Systems. *Lighting Research and Technology*, 41 (1), 7- 25.

M Andersen, **EC Stokes**, N Gayeski. Assessing Solar Bidirectional Light Distribution with the Heliodome, In *Proceedings of the IESNA 2008 conference*, Savannah GA, Nov 9-11.

2007

M Andersen, N Gayeski, **EC Stokes**, R Osser, C Browne. The Heliodome project: an innovative approach in assessing solar- optical properties of light- redirecting materials in combination with sun course simulations, In *Proceedings CISBAT 2007: Renewables in a changing climate - Innovation in the Built Environment*, Lausanne, September 4-5.

Non Peer-Reviewed Contributions

D Boyer, S Brodie, J Sperling, **EC Stokes**, A Zomer. (2015). Implementing the Urban Sustainable Development Goal: An exploration of data, methods, and indicators in Delhi, India and Atlanta, USA, *UGEC Insights*.

Grants and Fellowships

NASA Harriet Jenkins Pre-doctoral Graduate Fellowship (\$172,000)	2013-2017
Yale Institute of Biospheric Studies Fellowship (\$5000)	2012
Graduate Student Travel Fellowship (\$150)	2014
Auburn University Rural Studio Outreach Fellowship (\$12000)	2005
Dickey International Fellowship (\$5000)	2003

Workshops

2016

National Geospatial Agency/ Argonne Megacities Workshop, Springfield, VA
Social Media Workshop, SESYNC, Annapolis, MD

2013

Workshop on Human-Carbon Interactions in Urban Systems, NCAR, Boulder, CO

Presentations

2016

“Deconstructing Cities” Urban Transitions Global Summit, Shanghai, China

“Addressing a mismatch: Sustainable urbanization and the SDGs,” Presentation to the
Indian State Department, Yale University

2015

“Characterizing cities and urban development modes from space,” European Commission
Joint Research Centre, Ispra, Italy

“Opportunities for the Global Human Settlement Layer in urban research,” World Bank,
Washington DC

2014

“Holidays in Lights: Tracking Culture from Space Reveals Demand for Energy
Services,” American Geographers Union, San Francisco, CA

CitiNet, European Conference on Complex Systems, Lucca, Italy

2013

“What can remote sensing help us understand about cities?” Santa Fe Institute, Big Data
Workshop, Santa Fe, NM

Teaching Experience

Instructor, Outreach and Design/Build Seminar, Auburn University Rural Studio, 2005-
2006

Teaching Assistant

Climate Change Mitigation in Urban Areas; (Instructor: Karen Seto), School of Forestry
and Environmental Studies, Yale University, Fall 2015

Guest Lectures

“Red Barn to red-eye: Wandering the different scales of design science” Guest Lecture at
the Rural Studio ; (Instructor: Andrew Freear), School of Architecture, Auburn
University, Fall, 2015

“Monitoring Urbanization with Moderate and Coarse Resolution Data,” Guest Lecture in Observing Earth from Space; (Instructors: Ron Smith, Xuhui Lee, Larry Bonneau), Geology and Geophysics, Yale University, Spring, 2015

“Urbanization in the Context of Global Environmental Change”, Guest Lecture in Earth, Resources, Energy, and the Environment, Freshmen Seminar; (Instructor: David Evans), Geology and Geophysics, Yale University, Fall, 2013

Other

Invited Design Critic, Auburn University Rural Studio, 2015, 2016

Invited Design Critic, Daylighting, University of Pennsylvania School of Architecture, 2013

Instructor, GMAT prep course, University of Alabama at Birmingham, 2000

Other Professional Experience

Research Assistant, NASA Goddard Terrestrial Information Systems Laboratory (Miguel Román), 2012

Energy Research Engineer, Appalachian Energy Center, 2010-2012

Environmental Design Consultant, Atelier Ten, 2008-2010

Research Assistant, MIT Building Technology Lab (Instructor: Marilyn Andersen), 2006-2008

Professional Service

Reviewer

Big Data

Journal of Land Use Science

Departmental Activity

Graduate Student Assembly, Department of Forestry and Environmental Studies representative (2014-2015)

Energy & Environment Research Advisor, Roosevelt Institute (2014-2015)

Department of Forestry and Environmental Studies Doctoral Peer Mentor (2013-2014)

Languages

English, Spanish

Professional Memberships

American Geography Union

LEED Accredited Professional, US Green Building Council