

Scott R. Stephenson

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Education

University of California, Los Angeles

Ph.D. Geography, expected summer 2014
Advanced to Candidacy (C.Phil.), 2012
M.A. Geography, 2010

Stanford University

B.A. Human Biology, 2003
Minor: Science, Technology, and Society

School for International Training, University of Waikato, Hamilton, New Zealand, Fall 2002
Seminar and fieldwork on New Zealand ecology, natural history, and aboriginal culture.

Publications

Refereed Journal Articles

Stephenson, S.R., Brigham, L.W., Smith, L.C. (2013). Marine accessibility along Russia's Northern Sea Route. *Polar Geography*, DOI:10.1080/1088937X.2013.845859.

Smith, L.C. and **Stephenson, S.R.** (2013). New Trans-Arctic shipping routes navigable by midcentury. *Proceedings of the National Academy of Sciences Plus*, 110: E1191-E1195.

Stephenson, S.R., Smith, L.C., Brigham, L.W., Agnew, J.A. (2013). Projected 21st-century changes to Arctic marine access. *Climatic Change*, 118: 885-899.

Stephenson, S.R. (2012). Collaborative infrastructures: a roadmap for international cooperation in the Arctic. *Arctic Yearbook 2012*, 1: 311-333.

Stephenson S.R., Smith L.C., Agnew, J.A. (2011). Divergent long-term trajectories of human access to the Arctic. *Nature Climate Change*, 1: 156-160.

Refereed Journal Articles (in preparation)

Stephenson, S.R., Agnew, J.A. (submitted). The network allure: spatial context and embeddedness in northern extractive industries.

Stephenson, S.R., Davis, S.J., Zender, C., Smith, L.C. (in prep). Scenarios of 21st-century trans-Arctic shipping for climate studies.

Book Chapters

Stephenson, S.R. (in review). Access in flux: opportunities and uncertainties in Arctic transport and development. In Orttung, R. and Reisser, C. *Russia's Arctic Cities: State Policies, Resource Development, and Climate Change*.

Awards and Grants

- 2014: Selection: *Esri Map Book*, Vol. 29
- 2013: *PNAS* Top 10 Story of 2013: "New Trans-Arctic shipping routes navigable by midcentury"
First place (Analytic Presentation), Esri International User Conference Map Competition
UCLA Dissertation Year Fellowship (2013-2014)
UCLA Research Travel Grant (Svalbard, Norway)
UCLA Geography Graduate Publication Award
- 2012: American Geophysical Union Outstanding Student Paper Award
UCLA Canadian Studies Graduate Research and Conference Award
- 2011: National Science Foundation Nordic Research Opportunity (Nansen Environmental and Remote Sensing Center, Bergen, Norway)
Field Research Grant, Northern Alberta Development Council
UCLA Geography Graduate Publication Award
- 2010: National Science Foundation Graduate Research Fellow (2010-2013)
- 2009: UCLA Graduate Research Mentorship (2009-2010)
UCLA Graduate Summer Research Mentorship

Service and Affiliations

- Reviewer**, *Climatic Change*, *Oceanologia*, *Polar Geography*
- Co-organizer**, Polar Geography Sessions, Assn. of American Geographers Annual Meeting, 2013-2014
- Graduate Representative**, UCLA Geography Faculty Search Committee, 2013-2014
- Graduate Representative**, UCLA Geography Faculty meetings, 2009-2010, 2013-2014
- Chair**, Association of American Geographers Polar Geography Specialty Group, 2013-present
- Organizer**, Quality of Graduate Education "Careers in Geography" Symposium, 2010
- Member**, American Geophysical Union, 2010-present
- Member**, Association of American Geographers, 2008-present

Conference Presentations

- "Future climate impacts of trans-Arctic shipping" (oral), Arctic Frontiers, Tromsø Norway, January 2014.
- "Scenarios of 21st-century trans-Arctic shipping for climate studies" (oral), American Geophysical Union Fall Meeting, San Francisco CA, December 2013.
- Invited:** "Seasonal changes in access along the Northern Sea Route" (oral), Alaska and the New Maritime Arctic, Anchorage AK, November 2013.
- "Navigating the Northwest Passage: projections for viability in the 21st century" (oral), Arctic Shipping North America Forum, St. John's NL, October 2013.
- Invited:** "Access in flux: opportunities and challenges to sustainable transportation in the Russian Arctic" (oral), Promoting Sustainability in Russia's Arctic Cities, George Washington University, Washington DC, May 2013.
- "The Northern Sea Route: plausible navigation scenarios" (oral), Association of American Geographers Annual Meeting, Los Angeles CA, April 2013.

- “Impacts of projected sea ice changes on trans-Arctic navigation” (poster), American Geophysical Union Fall Meeting, San Francisco CA, December 2012.
- “The Role of winter/ice roads in industry and communities in northern Alberta” (oral), The First International Conference on Urbanization in the Arctic, Nuuk, Greenland, August 2012.
- “Projecting Arctic maritime access to 2100” (oral), Association of American Geographers Annual Meeting, New York NY, February 2012.
- “Accessibility dynamics in a warming Arctic” (oral), American Geophysical Union Fall Meeting, San Francisco CA, December 2010.
- “Implications of climate change for Arctic accessibility” (oral), Association of American Geographers Annual Meeting, Washington DC, April 2010.
- “Integration of estimates of winter road suitability in Arctic accessibility modeling” (oral), Association of Pacific Coast Geographers Annual Meeting, San Diego CA, October 2009.
- “Mapping vulnerability of settlements to permafrost thaw-induced subsidence in Siberia and the Russian Far East” (oral), Association of American Geographers Annual Meeting, Las Vegas NV, March 2009.

Teaching Experience

Teaching Assistant, University of California, Los Angeles

Environment 180A: Practicum in Environmental Science (2013, 2010)
Geography 168: Intermediate GIS (2013)

Lecturer, Hokkaido University of Education, Hakodate, Japan, 2005-2006

English instruction to Japanese university students.

Instructor, Daibundo School, Hakodate, Japan, 2005-2006

English instruction to native Japanese speakers in a seminar format.

Gallery Interpreter, Natural History Museum of Los Angeles County, 2002

Educated patrons about museum exhibits. Designed educational programming, tours, and live animal presentations.

Selected Media Coverage

KCBS-740AM San Francisco (radio interview), “Sailing the Arctic, Thanks to Global Warming” (December 2, 2013)

Economist Intelligence Unit, “The Arctic bites back—for now” (April 10, 2013)

Reuters, “Warmer climate to open new Arctic shipping routes by 2050—study” (March 4, 2013)

Los Angeles Times, “Ice melt to expand Arctic shipping by midcentury” (March 4, 2013)

NPR, “Study finds climate change to open Arctic sea routes by 2050” (March 5, 2013)

Scientific American, “Melting Arctic ice will make way for more ships—and more species invasions” (March 6, 2013)

Reuters, “Ice melt to close off Arctic’s interior riches: study” (May 29, 2011)

Toronto Globe and Mail, “Global warming jeopardizing ice highways, study says” (May 29, 2011)

CBC News (web interview), “Climate change to ravage Arctic ice roads” (May 31, 2011)

Wall Street Journal, Marketwatch “Melting ice has its downside for Canada” (May 31, 2011)

Scientific American, “Arctic to gain ports, lose ice roads new study finds” (May 31, 2011)