

Katherine G. Sammler

Curriculum vitae

CONTACT INFORMATION The University of Arizona (520) 621-1652
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RESEARCH INTERESTS Interrogation of territory and sovereignty in nonterrestrial spaces, oceans & atmospheres via political geography, critical theory & spatial analysis.

EDUCATION **Ph.D., School of Geography and Development**, expected May 2016
The University of Arizona, Tucson AZ
Dissertation Title: Environmental Governance of Pacific Seabed Mining
Advisor: Dr. Jeffrey Banister

M.S., Atmospheric Sciences, 2009
The University of Arizona, Tucson AZ

B.S., Physics, 2005
University of Oregon, Eugene OR

PROFESSIONAL EXPERIENCE **Research Appointments**

- 2014 Ocean Territoriality & Marine Resource Governance, dissertation research on emergent spaces of seabed mining governance, consulted archival sources and stakeholder interviews in New Zealand and Fiji.
- 2013 Intercultural Center for the Study of Desert and Oceans/Centro Intercultural de Estudios de Desiertos y Océanos. GIS marine spatial planning with artisanal fisher co-ops for sustainable governance in Gulf of California.
- 2009 Flood Hydroclimatology of Arizona, Climate Assessment of the Southwest (CLIMAS). Analyzed historical flood data, flood frequency & magnitude, web and GIS platforms for bi-directional stakeholder communication.
- 2008 Border Climate Summary, Udall Center for Public Policy & Institute of the Environment. Editor, bi-national climate quarterly. Interpreted climate content, made infographics, facilitated workshops in US & MX.
- 2008 Modeling O³ Measurement of GPS Radio Occultation. Atmospheric Sciences team. Atmospheric Temperature, Ozone, and Moisture Microwave Spectrometer (ATOMMS) satellite proof of concept.
- 2005 Pacific Northwest Index (PNI). Compiled and managed large data set of climate indicators.

Teaching Appointments

Primary Instructor

- 2015 winter; Our Changing Climate, 230; online.
2015 fall, 2012 fall; Our Dynamic Landscape, 240.
2015 summer, 2014 fall; Introduction to Physical Geography, 170; online.
2013 winter; Environment and Society, 150; online.
2012, 11 summer; Interact w/ Air, Land, & Sea: STEM Camp, AZK-12 Center.
2011 summer; Computer Cartography, 416/517 (ArcMap).

Lab Instructor

- 2012 spring; Geographic Apps. of Remote Sensing, 483/583 (ERDAS).
2012 spring; GIS for Natural & Social Sciences, 417/517 (ArcMap).
2011 fall; Introduction to Remote Sensing, 330 (ERDAS).

Teaching Assistant

- 2016 spring; Our Diverse Biosphere, 220.
2015 spring; The Political and Cultural Geography of Globalization, 210.
2015 spring; Introduction to Sustainable Development, 302.
2008 spring, 2007 fall; Weather and Climate, 101.

PUBLICATIONS **Book Chapters**

- 2016 **Sammler, K.** (forthcoming, March). “The Deep Pacific: Island Governance and Seabed Mineral Development” in E. Stratford (ed.), Island Geographies: Essays and Conversations, New York, NY: Routledge.

Conference Proceedings

- 2015 **Sammler, K.** From Ocean Abyss to Vacuum of Space: Privatization in the Vertical Commons. *Association of Pacific Coast Geographers*, Palm Springs, CA 21-24 Oct.
2014 **Sammler, K.** Emerging Resource Management Strategies and Deep Seabed Mining in South Pacific Island Nations. *Islands of the World Conference*, Penghu, TW 22–27 Sep.
2010 Kursinski, E.R., Young, A., Otarola, A., Stovern, M., Wheelwright, B., Ward D., **Sammler K.**, Stickney, R., Groppi, C., Al Banna, S., Schein, M., Bell, S., Bertiger, W., Miller, M., and Pickett, H. Laboratory and Ground Testing Results from ATOMMS: the Active Temperature, Ozone and Moisture Microwave Spectrometer. *21st International Symposium on Space TeraHertz Technology*, Oxford, 23-25 Mar.

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- 2009 AlBanna, S., Groppi, C., Walker, C., Schein, M., Bell, S., Wheelwright, B., d'Aubigny, C., Young, A., Golish, D., Kursinsk, E.R., Otarola, A., Ward, D., **Sammler, K.**, Bertiger, W., Miller, M., and Pickett, H. A Single 30 cm Aperture Antenna Design for The Operation of 2 Widely Separated Frequency Bands for the Active Temperature, Ozone and Moisture Microwave Spectrometer (ATOMMS). *20th International Symposium on Space Terahertz Technology*, Charlottesville, VA 20-22 Apr.
- 2008 Kursinski, E.R., Ward, D., Otarola, A., **Sammler, K.**, Frehlich, R., Rind, D., Groppi, C., Albanna S., Shein, M., Bertiger, W., Pickett, H. and Ross, M. The Active Temperature Ozone and Moisture Microwave Spectrometer (ATOMMS), *ECMWF GRAS SAF Workshop on GPS Radio Occultation*. Shinfield Park, UK. 16-18 Jun.

Book Reviews

- 2016 **Sammler, K.** (forthcoming) Book Review of Seascapes: Shaped by the Sea edited by Mike Brown & Barbara Humberstone. *The Canadian Geographer*.
- 2015 **Sammler, K.** Territory as Political Technology - A review of The Birth of Territory by Stuart Elden. *Contrivers' Review*. March 2.
- 2013 **Sammler, K.** Book review: Island Enclaves: Offshoring, Creative Governance and Subnational Island Jurisdictions. *Cultural Geographies*; *Island-ing Cultural Geographies* 20(2): 262
- 2013 **Sammler, K.** Book review: Island Enclaves: Offshoring, Creative Governance and Subnational Island Jurisdictions. *Current Issues in Comparative Education*; *Education in Small States: Fragilities, Vulnerabilities and Strengths* 15(1): 181-183.

Manuscripts in Preparation

- n.d. **Sammler, K.** Submerged Territory: Extending Continental Shelf Claims.
- n.d. **Sammler, K.** From Ocean Abyss to Vacuum of Space: Territorialization in the Vertical Commons.

Other Publications

- 2013 **Sammler, K.**, House-Peters, L. Tracing L.A.'s Marine Topographies: Climate, Currents, & Calamari. *Assc. of Am. Geographers Newsletter* 48(1).

FELLOWSHIPS & GRANTS

Fellowships

- 2014 Investigating Ocean Territory & Resource Sovereignty Through Seabed Mining in South Pacific Island Nations (PI). National Science Foundation–East Asia Pacific Summer Institute (EAPSI), New Zealand, \$5,000. Matching funds provided by Royal Society of New Zealand, \$3,200.
- 2014 Environmental Governance of the Deep: Pacific Seabed Mining. Social Science Research Council–Dissertation Proposal Devel. Fellowship: Oceanic Studies: Seas as Sites & Subjects of Interdisciplinary Inquiry, \$5,000.

2009 Graduate Research Fellow–Environmental Sustainability. Science Foundation Arizona, \$30,000.

Research Grants

2014 Environmental Governance of the Deep: Pacific Seabed Mining. Social & Behavioral Sciences Research Institute–Dissertation grant, UA. \$1,500.

2014 Environmental Governance of the Deep: Pacific Seabed Mining. Graduate and Professional Student Council, UA, \$1,000.

Travel Grants

2015, 2012 Association of Pacific Coast Geographers–Women’s Network, \$200.

2015–2011 Institute of the Environment University of Arizona, \$500.

2014 Islands of the World Conference–Penghu Island, Taiwan, \$1500.

2014–2011 Graduate and Professional Student Council University of Az, \$500.

2010 Association for Women Faculty University of Arizona, \$600.

Workshop Participation Grants

2016 Critical Physical Geography: Proposals, Berkeley, CA, 26-28 Mar.

2015 Critical Physical Geography: Discipline Defining, Chicago, IL, 18-20 Apr.

2010 Weather and Society*Integrated Studies. National Center for Atmospheric Research, Boulder, CO.

2008 4th Asian Space Conference & FORMOSAT-3/COSMIC. University Corporation of Atmospheric Research, Taipei, Taiwan.

HONORS & AWARDS

Teaching Awards

2015-16 GPSC Outstanding Teaching Assistant Award, \$100.

Paper Awards

2015 Sammler, K., From Ocean Abyss to Vacuum of Space: Privatization in the Vertical Commons. Association of Pacific Coast Geographers, Tom McKnight and Joan Clemens Award Outstanding Student Paper, \$250.

2015 Sammler, K., Ocean Governance and Seabed Mineral Development in the South Pacific. Association of American Geographers Political Geography Specialty Group, honorable mention, \$150.

CONFERENCES Papers Presented

2016 Sammler, K. Common Heritage or Private Commodity: Political Geography of Sea, Air, & Space. Association of American Geographers, San Francisco, CA, 29 Mar–02 Apr.

2015 Sammler, K. From Ocean Abyss to Vacuum of Space: Privatization in the Vertical Commons. APCG, Palm Springs, CA, 21-24 Oct.

2015 Sammler, K. Subsuming the Submerged: Producing Seabeds as Political Territories. Association of American Geographers, Chicago, IL, 21–25 Apr.

- 2015 Sammler, K. Knowing the Abyss: Seeking Geographies of Ocean Space. Oceans and Deserts: Charting Transdisciplinary Currents in Environment and Culture within the Arts and Sciences, Tucson, AZ 6–7 Mar.
- 2014 Sammler, K. Emerging Resource Management Strategies and Deep Seabed Mining in South Pacific Island Nations. Islands of the World Conference, Penghu Archipelago, Taiwan 22–27 Sep.
- 2014 Sammler, K. The Deep Pacific: Island Governance and Seabed Mineral Development. Assc. of American Geographers, Tampa, FL 8–12 Apr.
- 2014 Sammler, K. Sovereignty Submerged: Deep Sea Mining, Governance, & Accumulation in the Pacific. Dimensions of Political Ecology, Lexington, KY 27 Feb–1 Mar.
- 2013 Sammler, K. Ruin Spreads Over the Deep: The Production and Materiality of Ocean Space. Assc. of American Geogs., Los Angeles, CA 9–13 Apr.
- 2012 Sammler, K. Redolent of Spheres: On Ocean Law and Sovereignty. Association of Pacific Coast Geographers, Olympia, WA 3–6 Oct.

Posters Presented

- 2012 Sammler, K. Aquatic Imaginaries: Navigating Marine Debris. Association of American Geographers, New York, NY 24–28 Feb.
- 2010 Sammler, K., Hirschboeck, K. Flood Hydroclimatology Data as a Nexus for Stakeholder Interaction. Association of American Geographers, Washington D.C., 14–18 Apr.
- 2009 Sammler, K., Kursinski, E.R., Ward, D. Profiling Ozone Via Radio Occultation. American Geophysical Union, San Francisco, CA 14–18 Dec.
- 2008 Sammler, K., Kursinski, E.R., Ward, D. Modeling Ozone Error in ATOMMS Occultation Measurements. 4th Asian Space Conference & FORMOSAT-3/COSMIC Workshop, Taipei, Taiwan 1–3 Oct.

Discussant

- 2012 Author Meets Critics: *Island Enclaves* by Godfrey Baldacchino. Association of American Geographers, New York, NY 24–28 Feb.

OUTREACH & PROFESSIONAL SERVICE

- 2015 Ad Hoc Reviewer – Island Studies Journal.
- 2015 Invited Speaker – National Science Foundation: East Asia Pacific Summer Institute orientation, Arlington, VA 2–3 Apr.

Panels Organized

- 2016 Point, Line, Plane, Volume: Increasing Dimensionality in Geographic Inquiry I & II. Association of American Geographers, San Francisco, CA, 29 Mar–02 Apr.
- 2013 Writing Spaces of Exception: The Implications of Illegible Geographies. Association of American Geographers, Los Angeles, CA 9–13 Apr.

University

- 2015 Search committee – Associate Dean for Research. Social & Behavioral Sciences, University of Arizona.
- 2015 Invited speaker – Society of Earth Science Students, geosciences undergraduate club, University of Arizona.
- 2015 Poster presented – *New Waves in the Ocean: Environmental Governance Challenges of Seabed Mining in the Pacific*. University of Arizona: Graduate and Professional Student Council Grant winner Expo 23 Oct, Institute of the Environment Grad Blitz 3 Nov, Graduate Interdisciplinary Programs Research Showcase 10 Dec.
- 2011–2015 Travel Grant Judge – Graduate & Professional Student Council, University of Arizona.
- 2011 Development Committee – School of Geography and Development, University of Arizona. Newsletter, alumni fundraising.

Community

- 2015 Founder, Space Society and science fiction reading group.
- 2014 Presentation for McGuinness Foundation & stakeholders, Wellington, NZ.
- 2012 Science Fair Judge, South Side Community School, Tucson, AZ.
- 2010 Founder, Tucson Aquatic Enthusiast Society & Aquatic Syndicate.
- 2008 Volunteer SuomiNet GPS precipitable water vapor weather station installation. Yuma, AZ.

Professional Membership

American Association of University Women
Association of American Geographers
Association of Pacific Coast Geographers
International Small Islands Studies Association

LANGUAGE **Spanish** reading: good, writing: good, speaking: conversational.

ADDITIONAL SKILLS **Computer Skills** ArcGIS, ERDAS Imagine, Fortran, GrADS, IDL, iWork, LaTeX, Mathematica, Matlab, Microsoft Office, Nvivo, Unix.

Other Association of College and University Educators (ACUE) Course in Effective Teaching Practices 2015, CITI Human Subjects Training 2008, renewed 2013; PADI open water SCUBA 2008, screen printing and design.

REFERENCES

Jeffrey Banister

Assistant Research Social Scientist, Southwest Center and
Assistant Research Professor, School of Geography and Development
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