



SESYNC Feedbacks

News from the National Socio-Environmental Synthesis Center

SESYNC Invites Proposals for Interdisciplinary Team-Based Research

SESYNC has a tradition of announcing focal themes with each RFP and below we announce new thematic topic areas. However, there are many potential projects with great applicability to socio-environmental problems that fall outside these themes. Accordingly, we are also open to exciting and creative project proposals outside the topical areas listed below:

- Social and Environmental Dimensions of the Food-Water-Energy Nexus
- Global Change and Health
- Freshwater and Ecosystems in a Changing World
- Socio-Environmental Implications of Large-Scale Infrastructure Projects

[Learn about applying for Pursuits and Workshops.](#) **Deadline May 15.**

Short Courses

Introduction to Social and Ecological Network Analysis

Deadline April 2.

This 5-day short course will serve as an introduction to the theory and practice of

Introduction to Spatial Agent-Based Modeling

Deadline April 8.

This 5-day short course will serve as an introduction to the theory and practice of

Teaching with Case Studies

Deadline April 12.

This 4-day short course brings together a diverse group of scholars and

Summer Institute on Cyberinfrastructure for SES

Deadline April 19.

This 4 (5)-day short course will combine lectures, hands-on computer labs, and

social and ecological
network analysis.

spatially-explicit
agent-based
modeling (ABM).

educators to develop
socio-environmental
synthesis teaching
case studies.

project consultation
designed to
accelerate the
adoption of
cyber resources for all
phases of data-driven
research and
dissemination.

[Details here.](#)

[Details here.](#)

[Details here.](#)

[Details here.](#)

Job Opportunity

Environmental Science Research Communications Assistant

[Details here.](#) Deadline April 18.

New Pursuits and Workshops

The National Socio-Environmental Synthesis Center (SESYNC) welcomes eight new projects starting in 2019.

Workshop

[Towards a practical environmental footprint tool](#) - Allison M. Leach, University of New Hampshire and James N. Galloway, University of Virginia

Pursuits

[Simultaneously managing scale and uncertainty using innovative software design concepts in a tiered, system-of-systems modeling framework](#) - John Little, Virginia Tech and Hsiao-Hsuan (Rose) Wang, Texas A&M University

[Can enhancing diversity help scale up agriculture's benefits to people and the environment?](#) - Zia Mehrabi, University of British Columbia and Claire Kremen, University of British Columbia

[A socio-environmental synthesis of the linkages between water scarcity induced conflict and land use/land cover change in Africa to enhance multi-scalar decision making](#) - Erin L. Bunting, Michigan State University and Elizabeth A. Mack, Michigan State University

Graduate Pursuits

[The globalization of conservation: How public perceptions of biodiversity and international trade patterns shape mangrove conservation](#) - Natali Ramirez-Bullon, Florida State University, Jacob Bukoski, University of California, Berkeley, and Sophia Chau, Michigan State University

[Distilling the Public Discourses and Nexus between Water Quality and Social Inequality](#) - Helen Rosko, Clark University and Mitchell Owens, Indiana University Bloomington

[Understanding social responses to environmental shocks: A text mining approach](#) - Matthew Cooper, University of Maryland, Jeremiah Osborne-Gowey, University of Colorado Boulder, and Aaron Schwartz, University of Vermont

[From Storms to Plowshares: A Multi-Scale Spatial Risk Analysis of Hurricane Maria's Impacts on Puerto Rico's Agro-Food System](#) - Daniel Shtob, University of Oregon and Hannah Stokes-Ramos, University at Buffalo

SESYNC Publications

Agricultural intensification, dietary diversity, and markets in the global food security narrative. Published in *Global Food Security* by Amy Ickowitz and colleagues as part of the Pursuit, [Food and Landscape Diversity](#) .

Short- and long-term hydrologic controls on smouldering fire in wetland soils. Published in *International Journal of Wildland Fire* by Morgan Schulte and colleagues including SESYNC postdoc Nate Jones.

Land Cover Change in the Abuja City-Region, Nigeria: Integrating GIS and Remotely Sensed Data to Support Land Use Planning. Published in the *Sustainability* by Evidence Chinedu Enoguanbhor and colleagues including SESYNC postdoc Florian Gollnow.

Dynamics of bed bug infestations and control under disclosure policies Published in *PNAS* by Sherrie Xie and colleagues as part of the Pursuit, [Socio-spatial Ecology of the Bed Bug and its Control](#) .

Modeling Connectivity of Non-floodplain Wetlands: Insights, Approaches, and Recommendations. Published in *Journal of American Water Resources Association* by SESYNC postdoc Nate Jones and colleagues.

No landward movement: examining 80 years of population migration and shoreline change in Louisiana. Published in *Population and Environment* by Matthew Hauer and colleagues, including SESYNC postdoc Dean Hardy.

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