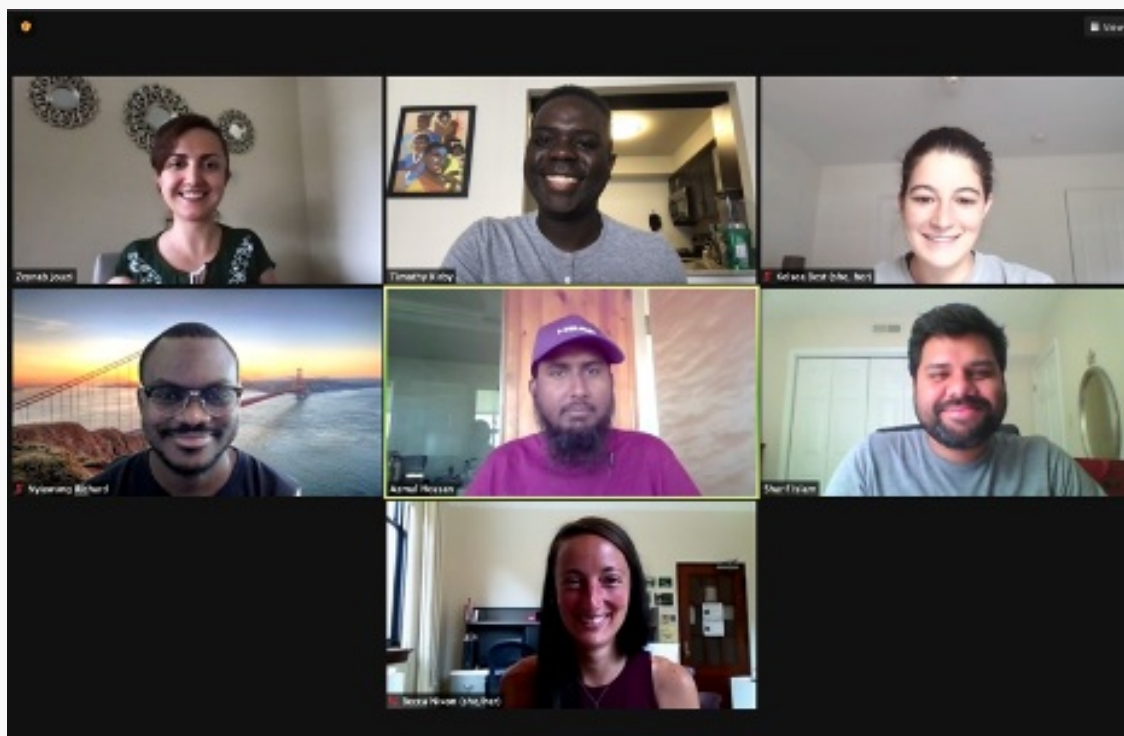




## SESYNC Feedbacks

News from the National Socio-Environmental Synthesis Center



### TEAM REFLECTIONS | Grad Pursuit Shares Experience

Below, members of the Graduate Pursuit [Pushed to the Edge: A Socio-Environmental Analysis of Climate Gentrification along the East Coast of the United States](#) share what they've learned during their first year of working together on an interdisciplinary, synthesis project. Read on to hear what team members Kelsea Best (Vanderbilt University); Md Sariful Islam (Virginia Tech University); Zeynab Jouzi (North Carolina State University); Azmal Hossan (Colorado State University); Timothy Kirby (Florida International University); Rebecca Nixon (Purdue University); and Richard Nyiauwung (University of Guelph) have to say.

In 2020, our SESYNC Graduate Pursuit formed to investigate ways in which climate change contributes to gentrification and displacement across the U.S. East Coast. Since our Pursuit's initial ideation and design through its implementation, we (three women and four men from four different countries, representing seven different institutions and fields of study) have grown as a team and as individuals. Now, more than a year after our Graduate Pursuit began, our team wanted to take the time to reflect on the personal and professional growth that this experience has provided us so far.

In some ways, the process of writing this blog mirrored the ways in which we've learned to work together on this project. [Read more.](#)

KUDOS | SESYNC Fellow's Case Study Wins Top Award

Congratulations to former SESYNC research fellow Dr. Kathleen Rugel for winning the top prize in *Case Studies of the Environment's* 2020 Award Competition. Rugel's case study "**Stakeholders Reach Consensus in Troubled Waters: Apalachicola-Chattahoochee-Flint River Basin, Southeastern USA,**" ultimately won the top prize for the best environmental case study submitted to the contest, along with a \$2,000 monetary award.



This competition involves a rigorous peer review process, in which case studies are evaluated for their contributions to teaching environmental concepts to students or practitioners.

The journal noted that Rugel's case study stood out due to its inclusion of the the role of key stakeholders in addressing the topical issue and its presentation of lessons with wider applicability.

Rugel shared that her article "discusses the involvement and successes of stakeholders in efforts to resolve the decades-long conflicts over shared waters in the Apalachicola-Chattahoochee-Flint River Basin in southwestern Georgia." The case study is part of Dr. Rugel's larger body of research focused on how people manage shared water resources around the globe. She said she hopes to release a book on this topic within the coming year.

[Learn more](#) about the contest and read the other winning case studies for free [here](#).

## VIDEOS | Confronting Issues of Scale in SES Modeling

### Exploring Modeling Concerns Related to Scale

In our latest video, Dr. Hsiao-Hsuan 'Rose' Wang presents the types of scale issues likely to arise in each socio-environmental systems (SES) modeling phase, while highlighting how to deal with them. Based on the 2021 article "**Socio-technical scales in socio-environmental modeling: Managing a system-of-systems modeling approach,**" the topics covered here aim to address the difficulty in integrating models representing different kinds of systems developed by individuals from different disciplinary backgrounds. It is intended for practitioners and scholars who commission, sponsor, or use SES models. This video is an extended version of the one presented during the recent webinar "**Confronting Issues of Scale in Socio-Environmental Systems Modeling.**"



Be sure to **subscribe** to SESYNC's YouTube channel to be the first to know when new videos are added!



## NEW PUBLICATIONS | SESYNC in the Journals

**"Leveraging the NEON Airborne Observation Platform for Socio-Environmental Systems Research."** Published in *Ecosphere* by Elsa M. Ordway, SESYNC staff Andrew J. Elmore, Sonja Kolstoe, John E. Quinn, former SESYNC staff Rachel Swanwick, Megan Cattau, Dylan Taillie, Steven M. Guinn, K. Dana Chadwick, Jeff W. Atkins, SESYNC staff Rachael E. Blake, Melissa Chapman, Kelly Cobourn, Tristan Goulden, Matthew R. Helmus, former SESYNC staff Kelly Hondula, former SESYNC staff Carrie Hritz, Jennifer Jensen, Jason P. Julian, Yusuke Kuwayama, Vijay Lulla, Donal O'Leary, Donald R. Nelson, Jonathan P. Ocón, Stephanie Pau, Guillermo E. Ponce-Campos, Carlos Portillo-Quintero, Narcisa G. Pricope, Rosanna G. Rivero, Laura Schneider, Meredith Steele, Mirela G. Tulbure, Matthew A. Williamson, and Cyril Wilson. This paper resulted from the Workshop, [Leveraging the NEON Airborne Observation Platform for Socio-Environmental Systems Research](#).

**"The International Vertebrate Pet Trade Network and Insights from US Imports of Exotic Pets."** Published in *BioScience* by James S. Sinclair, Oliver C. Stringham, Bradley Udell, Nicholas E. Mandrak, Brian Leung, Christina M. Romagosa, and Julie L. Lockwood. This paper is a result of the Pursuit, [Linking Trade, Biology, and Pet Owner Decisions to the Risk of Vertebrate Invasions in the US](#).

**"Toward a complete interdisciplinary treatment of scale: Reflexive lessons from socioenvironmental systems modeling."** Published in *Elementa: Science of the Anthropocene* by Takuya Iwanaga, Hsiao-Hsuan Wang, Tomasz E. Koralewski, William E. Grant, Anthony J. Jakeman, and John C. Little. This paper resulted from the Pursuit, [Simultaneously managing scale and uncertainty using innovative software design concepts in a tiered, system-of-systems modeling framework](#).

**"Aligning actions with objectives in endangered species recovery plans."** Published in *Conservation Science and Practice* by Katherine C. B. Weiss, Gwenllian D. Iacona, Álex Tuñas Corzón, Olivia N. Davis, Krista Kemppinen, Katie C. Surrey, and Leah R. Gerber. This paper resulted from the Pursuit, [ESA Decision Making](#).

**"Decoloniality and anti-oppressive practices for a more ethical ecology."** Published in *Nature Ecology & Evolution* by former SESYNC postdoc Christopher H. Trisos, with colleagues Jess Auerbach and Madhusudan Katti.

**"Resource users as land-sea links in coastal and marine socioecological systems."** Published in *Conservation Biology* by Nicholas E. Williams, Seeta A. Sistla, Daniel B. Kramer, Kara J. Stevens, and Adam B. Roddy. This paper resulted from the Pursuit, [From Water to Land?](#)

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