

Jacopo Alessandro Baggio

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Position:

2021 – Present	Associate Professor, School of Politics, Security, and International Affairs; core member, Sustainable Coastal System Cluster and National Center for Integrated Coastal Research, University of Central Florida
2018 – 2021	Assistant Professor, School of Politics, Security, and International Affairs and National Center for Integrated Coastal Research, University of Central Florida
2015 – 2018	Assistant Professor, Department of Environment and Society, College of Natural Resources, Utah State University
2011 – 2015	Postdoctoral Research Associate at the Center for Behavior, Institutions and the Environment, Arizona State University (formerly known as the Center for the Study of Institutional Diversity)

Education:

- PhD in International Development (2011). University of East Anglia, School of International Development, Norwich, UK. (Supervisors: Prof. Katrina Brown and Dr. Elissaios Papyrakis)
- MA in Development Economics (2007). University of East Anglia, School of Development Studies, Norwich, UK. (Supervisor: Dr. Elissaios Papyrakis)
- Bsc in Economics and Social Sciences (2005). University of Milano-Bicocca, School of Economics, Milan, Italy (Supervisors: prof. L. Bruni, prof. L. Stanca).
- Classical high school diploma (Maturità classica, 1999). Liceo Ginnasio Statale G. Parini, Milan, Italy.

Grants and Funding

- **2024:** NSF DRMS: PI at UCF (\$347,829). Collaborative Research: Group cognition, stress arousal, and environment feedbacks in decision making and adaptation under uncertainty. (\$656,184).
- **2021:** UCF Seed Grant for Interdisciplinary Research: co-PI with Sergio Alvarez (PI) Chris Emrich (co-PI), Thomas Wahl (co-PI): Influences of coupled natural-human systems on sea-level rise adaptation pathways for Florida. (\$67,500)
- **2019:** NAS: co-PI with Chris Emrich (PI), Thomas Wahl (co-PI), Kristy Lewis (co-PI), Sergio Alvarez (co-PI), Sonia Stephens (co-PI): The New First Line of Defence: Building Community Resilience through Residential Risk Disclosure Resilience. (\$3,403,554.00).
- **2017:** USDA-NIFA: co-PI with Kari Veblen (PI), Mark Brunson (co-PI) and David Pyke (co-PI): A pre-emptive rangeland restoration approach to improving biodiversity and provision of ecosystem services (\$500,000)
- **2016:** NSF INFEWS Track 1: co-PI for Utah State University sub-award (\$423,899) with Christopher Lant (co-PI). Proposal PI: Ben Ruddell, Arizona State University: Mesoscale Data Fusion to Map and Model the U.S. FEWS system (INFEWSion) (\$3,000,000) (other co-Pi: Kevin R Gurney, Michael Hanemann, John L Sabo, Shade T Shuttles, Tara J Troy, Alfonso I Mejia, Kristen Averyt, Megan Konar)
- **2016:** NSF IBSS: co-PI with Jacob Freeman (PI) and Thomas Coyle (co-PI): Diversity, Intelligence and Robust Cooperation in Social Ecological Systems (\$465,893)
- **2015:** SPARC Seed Grant from Utah State University, co-PI with Jordan Smith (PI) and Sarah Null (co-PI): Developing a coupled socio-hydrological agent-based model to examine the demand for and supply of outdoor recreation and tourism opportunities under future climate scenarios (\$35,000)
- **2015:** Seed Grant from the Center for Biodiversity Outcomes, Arizona State University, co-PI with Michael Schoon, Candice Carr Kelman and Dara Wald: Collaborative Governance for Improving Biodiversity Outcomes (\$7,000)
- **2015:** Consortium for Biosocial Complex Systems, co-PI with Michael Schoon, Ken Abbot, Erik Johnston and Jose Lobo: Working across Scales in the Governance of Social-Ecological Systems, seed grant (\$1,000)

- **2014:** Haynes Foundation, consultant, with Prof. Hal Nelson (PI): Power Struggles: Improving Energy Infrastructure Project Siting, Outcomes in the Los Angeles Region (\$127,940)
- **2007:** ESRC PhD scholarship (Economic and Social Research Council, UK)

Awards

- **2023** Outstanding Research Award, School of Politics, Security and International Affairs, University of Central Florida
- **2023** Research Incentive Award (RIA), College of Science, University of Central Florida
- **2017** Researcher of the Year -, SJ & Jessie E. Quinney College of Natural Resources Researcher of the Year, Utah State University

Journal Articles (62)

- 2024** Bhalla, S., **Baggio, J. A.**, Sahu, R.-K., Kahil, T., Tarhouni, J., Brini, R., & Wildemeersch, M. (2024). The role of interacting social and institutional norms in stressed groundwater systems. *Journal of Environmental Management*, 356: 120389.
- Epstein, G., Apetrei, C. I., **Baggio, J.**, Chawla, S., Cumming, G., Gurney, G., Morrison, T., Unnikrishnan, H., Tomas, S. V. (2024). The Problem of Institutional Fit: Uncovering Patterns with Boosted Decision Trees. *International Journal of the Commons*, 18(1), 1-16.
- Qiu, J., Zhao, H., Chang, NB., Wardropper, W.C., Campbell, C., **Baggio, J. A.** Guan, Z., Kohl, P., Newell, J., Wu, J. (2024). Scale up urban agriculture to leverage transformative food systems change, advance social–ecological resilience and improve sustainability. *Nature Food*, 5, 83-92.
- 2023** Miller, B., Garibay, I., **Baggio, J.**, Nassif, E. (2023). Network structure can amplify innovation adoption and polarization in group-structured populations with outgroup aversion. *Journal of Artificial Societies and Social Simulation*, 26(4), 4.
- Labeyrie, V., Friedman, R.S., Donnet S., Fatou, N., Faye, Océane Cobelli, F., **Baggio, J.**, Felipe-Lucia, M.R., & Raimond, C. (2023). Linking seed networks and crop diversity contributions to people: A case study in small-scale farming systems in Sahelian Senegal. *Agricultural Systems* 211, 103726
- Calzado-Martinez, C., Brunson, M. W., Koutzoukis, S., **Baggio, J.**, & Veblen, K. E. (2023). Addressing barriers to proactive restoration of at-risk sagebrush communities: A causal layered analysis. *Restoration Ecology*, 31(7), e13897.
- Koutzoukis, S., Pyke, D. A., Brunson, M. W., **Baggio, J.**, Calzado-Martinez, C., & Veblen, K.E. (2023) Goldilocks forbs: survival is highest outside – but not too far outside – of Wyoming big sagebrush canopies. *Restoration Ecology*, 31(6), e13919.
- Miranda, L., Garibay, O. O., & **Baggio, J.** (2023). Evolutionary Model Discovery of Human Behavioral Factors Driving Decision-Making in Irrigation Experiments, *Journal of Artificial Societies and Social Simulation*, 26(2), 11.
- Freeman, J., **Baggio, J. A.**, Miranda, L., & Anderies, J. M. (2023). Infrastructure and the Energy Use of Human Polities. *Cross-Cultural Research*, 57(2–3), 294–322.
- Davis, K. F., Müller, M. F., Rulli, M. C., Tatlhego, M., Ali, S., **Baggio, J. A.**, ... & Eckert, S. (2023). Transnational agricultural land acquisitions threaten biodiversity in the Global South. *Environmental Research Letters*, 18(2), 024014.
- Blythe, J. L., Gill, D. A., Claudet, J., Bennett, N. J., Gurney, G. G., **Baggio, J. A.**, ... & Zafra-Calvo, N. (2023). Blue justice: a review of emerging scholarship and resistance movements. *Cambridge Prisms: Coastal Futures*, 1, e15

Gill, D. A., Blythe, J., Bennett, N., Evans, L., Brown, K., Turner, R. A., **Baggio, J.A.**, ... & Muthiga, N. A. (2023). Triple exposure: Reducing negative impacts of climate change, blue growth, and conservation on coastal communities. *One Earth*, 6(2), 118-130.

2022 Salau, K., **Baggio, J.A.**, Shanafelt, D., Abbot, J., Janssen, M., Fenichel, E. 2022 Taking a moment to measure networks – An approach to species conservation. *Landscape Ecology*, 37, 2551–2569

D'Antonio, A., Monz, C. A., Crabb, B., **Baggio, J.**, & Howe, P. Proof of concept study GPS-based tracking data to build agent-based models of visitors' off-trail behavior in nature-based tourism settings. *Applied Geography*, 147, 102771.

Baggio JA, Freeman J, Coyle TR, Anderies JM (2022) Harnessing the benefits of diversity to address socio-environmental governance challenges. *PLoS ONE* 17(8): e0263399.

Felipe-Lucia, M. R., Guerrero, A. M., Alexander, S. M., Ashander, J., **Baggio, J. A.**, Barnes, M. L., Bodin, Ö ... Dee, L. E. (2022). Conceptualizing ecosystem services using social–ecological networks. *Trends in Ecology & Evolution*, 37(3), 211-222.

2021 Freeman, J., Anderies, J. M., Beckman, N. G., Robinson, E., **Baggio, J.A.**, Bird, D., Nicholson, C., Finley, J.B., Capriles, J. M., Gil, A.F., Byers, D., Gayo, E., Latorre, C. (2021). Landscape Engineering Impacts the Long-Term Stability of Agricultural Populations. *Human Ecology* 49(4), 369-382

Schoon, M., Chapman, M., Loos, J., Speranza, C. I., Kelman, C. C., Aburto, J., Alexander, S., **Baggio, J.**, Brady, U., Cockburn, J., Cundill, G., Garcia-Lopez, G., Hill, R., Robinson, C., Thoondhlana, G., Trimble, M., Whittaker, D. (2021). On the frontiers of collaboration and conflict : how context influences the success of collaboration. *Ecosystems and People*, 17(1), 383–399.

Cremades, R., Sanchez-Plaza, A., Hewitt, R. J., Mitter, H., **Baggio, J.A.**, Olazabal, M., ... Tudose, N. C. (2021). Guiding cities under increased droughts: The limits to sustainable urban futures. *Ecological Economics*, 189, 107140.

Baggio, J.A. (2021). Knowledge generation via social-knowledge network co-evolution: 30 years (1990–2019) of adaptation, mitigation and transformation related to climate change. *Climatic Change*, 167:13

Lambert, J., Epstein, G., Joel, J., & **Baggio, J.** (2021). Identifying Topics and Trends in the Study of Common-Pool Resources Using Natural Language Processing. *International Journal of the Commons*, 15(1), 206–217

Lee, J., **Baggio J.A.**, (2021). Promises and limits of community-based organizations in bridging mismatches of scale: a case study on collaborative governance on federal lands. *Ecology and Society*, 26(1):7

Epstein, G., Gurney, G., Chawla, S., Anderies, J.M., **Baggio, J.A.**, Unnikrishnan, H., Villamayor-Tomas, S., Cumming, G. (2021). Drivers of compliance monitoring in forest commons. *Nature Sustainability*, 4, 450–456

2020 Young, J.K., Coopock, L.D., **Baggio, J.A.**, Rood, K.A., Yrga, G. (2020). Linking Human Perceptions and Spotted Hyena Behavior in Urban Areas of Ethiopia. *Animals*, 10(12), 2400.

Cockburn, J., Schoon, M., Cundill, G., Robinson, C., Aburto Frias, J., Alexander, S., **Baggio, J.A.**, Barnaud, C., Chapman, M., Garcia Llorente, M., Garcia-Lopez, G., Hill, R., Ifejika, C., Lee, J., Meek, C., Rosenberg, E., Schultz, L., Thondhlana, G. (2020). Understanding the context of multifaceted collaborations for social-ecological sustainability: A methodology for cross-case analysis. *Ecology and Society*, 25(3):7

Freeman, J., #Robinson, E., *Bird, D., Beckman, N., **Baggio, J.A.**, Anderies, J.M. (2020). The Global Ecology of Human Population Density and Interpreting Changes in Radiocarbon Time-series. *Journal of Archaeological Sciences*, 120: 105168

Cumming, G.S, Epstein, G.B., Anderies, J.M., Apetrei, C, **Baggio, J.A.**, Bodin, O, Chawla, S., Clements, H.S., Cox, M., Egli, L., Gurney, G., Lubell, M., Magliocca, N., Morrison, T., Müller, B., Seppelt, R., Schlüter, M., Unnakrishnan H., Villamayor-Tomas, S., Weible, C. (2020). Advancing understanding of natural resource governance: a post-Ostrom research agenda, *Current opinion in environmental sustainability*, 44, 26-34.

Freeman, J., **Baggio, J.A.**, Coyle, T.R.(2020). Social and general intelligence improves collective action in a common pool resource system. *Proceedings of the National Academy of Sciences*, 117(14), 7712-7718.

Mathias, J.D., Anderies, J.M., **Baggio, J.A.**, Hodbod, J., Huet, S., Janssen, M.A., Milkoreit, M., Schoon, M. (2020). Exploring non-linear transition pathways in social-ecological systems, *Scientific Reports*, 10(1), 4136

2019 **Baggio, J.A.**, Schoon, M., Vallury, S. Managing Networked Landscapes: Conservation in a connected, fragmented world, *Regional Environmental Change* 19(8), 2551–2562

Freeman, J., **Baggio, J. A.** (2019). The effect of ownership on ecosystem management among human foragers. *Quaternary International*, 518, 11–20.

Sayles, J., Mancilla-Garcia, M., Hamilton, M., Alexander, S., **Baggio, J.A.**, Fisher, A., Ingold, K., Meredith, G., Pittman, J. (2019). Social-ecological network analysis for sustainability sciences: a systematic review and innovative research agenda for the future, *Environmental Research Letters*, 14(9): 093003

Bodin, Ö., Alexander, S., **Baggio, J.A.**, Barnes, M.L., Berardo R, Cumming, G.S., Dee, L., Fischer, P., Fisher, M., Garcia M., Guerrero, A., Ingold, K., Hileman, J., Matous, P., Morrison, T., Pittman, J., Robins, G., Sayles, J.(2019). Improving network approaches to the study of complex social-ecological interdependencies, *Nature Sustainability*, 2(7), 551-559

Friesen, S., Martone, R., Rubidge, E., **Baggio, J.A.**, Ban, N. (2019). An approach to incorporating inferred connectivity of adult movement into marine protected area design with limited data. *Ecological Applications*, 29(4): e01890.

Fagua, J. C., **Baggio, J.A.**, Ramsey, R.D. (2019). Drivers of forest cover changes in the Choco-Darien Global Ecoregion of South America. *Ecosphere* 10(3): e02648.

Baggio, J.A., Freeman, J., Coyle, T., Nguyen, T., Elpers, K.E., Hancock, D., Nabity, S., Dengha, F., Pillow, D. (2019). The importance of cognitive diversity for sustaining the commons *Nature Communications*, 10(1), 875

Lant, C., **Baggio J.**, Konar M., Meija A., Ruddell B., Rushforth R., Sabo J., and Troy T. (2019). The U.S. food-energy-water system: A blueprint to fill the mesoscale gap for science and decision-making. *Ambio*, 48(3), 251-263

2018 Coyle, T., Elpers, K.E., Gonzalez, M.C., Freeman, J., **Baggio J.A.** (2018) General Intelligence (g), ACT scores and theory of mind: (ACT)g predicts limited variance among theory of mind tests. *Intelligence* 71, 85–91.

Freeman, J., **Baggio, J.A.**, Robinson, E., Byers, D.A., Gayo, E., Finley, J.B., Meyer, J.A., Kelly, R.L., Anderies, J.M. (2018). Synchronization of energy consumption by human societies throughout the Holocene. *Proceedings of the National Academy of Sciences*, 115(40), 9962-9967

Baggio, J.A., Hillis, V. (2018). Managing ecological disturbances: learning and the structure of social-ecological networks. *Environmental Modelling and Software*, 109, 32-40

Haeffner M., **Baggio J.A.**, Galvin K. (2018). Investigating environmental migration and other rural drought strategies in Baja California Sur, Mexico, *Regional Environmental Change*, 8(5), 1495-1507

Milkoreit, M., Hodbod, J. **Baggio, J.A.**, Benessaiah K., Calderon-Contreras, R., Donges, J.F., Mathias, J.D., Rocha, J.C., Schoon, M., Werners, S.E., (2018) Defining Tipping Points for Social-Ecological Systems Scholarship – An Interdisciplinary Literature Review, *Environmental Research Letters*, 13(2), 033005

2017 Shanafelt D.W., Salau K.R., **Baggio J.A.** (2017). Do-it-yourself networks: a novel method of generating weighted networks. *Royal Society Open Science*, 4, 171227

Janssen, M.A., **Baggio, J.A.** (2017). Using Agent-Based Models to Compare Behavioral Theories on Experimental Data: Application for Irrigation Games. *Journal of Environmental Psychology*, 54, 194-203

Sayles, J., **Baggio, J.A.** (2017). Social-Ecological network analysis of scale-mismatches in estuary watershed restoration. *Proceedings of the National Academy of Sciences*, 114(10), E1776-E1785

Schoon, M.L., York, A., Sullivan, A., **Baggio, J.A.** (2017). The Emergence of an environmental governance network: the case of the Arizona Borderlands. *Regional Environmental Change*, 17(3), 677-689

Sayles, J., **Baggio J.A.** (2017). Who collaborates and why: Assessment and diagnostic of governance network integration for salmon restoration in Whidbey Basin, Puget Sound, WA. *Journal of Environmental Management*, 186, 64-78

2016 **Baggio, J.A.**, Burnsiver, S., Arenas, A., Magdanz, J., Kofinas, G., DeDomenico, M. (2016). Multiplex social ecological network analysis reveals how social changes affect community robustness more than resource depletion *Proceedings of the National Academy of Sciences*, 113(48), 13708-13713

Baggio J.A., Barnett A., Perez-Ibarra I., Brady U., Ratajczyk E., Rollins N., Rubiños C., Shin H.C., Yu D.J., Aggarwal R., Anderies J.M., Janssen M.A. (2016). Explaining Success and Failure in the Commons: The Configurational Nature of Ostrom's Institutional Design Principles. *International Journal of the Commons*, 10(2), 417-439.

Barnett A., **Baggio J.A.**, Perez-Ibarra I., Brady U., Ratajczyk E., Rollins N., Rubiños C., Shin H.C., Yu D.J., Aggarwal R., Anderies J.M., Janssen M.A. (2016). An iterative approach to Large-N case studies: insights from qualitative analysis of quantitative inconsistencies. *International Journal of the Commons*, 10(2), 467-494.

Ratajczyk E., Brady U., **Baggio J.A.**, Barnett A., Perez-Ibarra I., Rollins N., Rubiños C., Shin H.C., Yu D.J., Aggarwal R., Anderies J.M., Janssen M.A. (2016). Challenges and Opportunities in Coding the Commons: Problems, Procedures, and Potential Solutions in Large-N Comparative Case Studies. *International Journal of the Commons*, 10(2), 440-466.

Freeman, J., Coyle, T., **Baggio, J.A.** (2016). The Functional Intelligence Proposition. *Journal of Personality and Individual Differences*, 99, 46-55

Wu, L., **Baggio J.A.**, Janssen M.A. (2016). The role of diverse strategies in the sustainability of online communities. *PLoS ONE*, 11(3), e0149151

2015 **Baggio, J.A.**, Rollins N.D., Pérez I., Janssen M.A. (2015). Irrigation experiments in the lab: trust, environmental variability, and collective action. *Ecology and Society*, 20 (4), 12

Baggio, J.A., Brown, K., Hellebrandt, D. (2015). Boundary Object or Bridging Concept? A Citation Network Analysis of Resilience. *Ecology and Society*, 20(2), 2

2014 Moore, M.-L., Tjornbo, O., Enfors, E., Knapp, C., Hodbod, J., **Baggio, J.A.**, Norström, A., Olsson, P., Biggs, D. (2014). Studying the complexity of change: toward an analytical framework for understanding deliberate social-ecological transformations. *Ecology and Society*, 19(4), 54

Sikor, T., & **Baggio, J.A.** (2014). Can smallholders engage in tree plantations? An entitlements analysis from Vietnam. *World Development*, 64(Supp1), S101-S112.

Hill, K.R., Wood, B.M., **Baggio, J.**, Hurtado A.M., Boyd R.T. (2014). Hunter-Gatherer Inter-Band Interaction Rates: Implications for Cumulative Culture. *PLoS ONE* 9(7): e102806.

Schoon, M.L., **Baggio, J.A.**, Salau, K. & Janssen, M. (2014). Insights for Managers from Modeling Species Interactions across Multiple Scales in an Idealized Landscape. *Environmental Modeling and Software*, 54, 53-59.

Short summary available at: <http://www.conservationcorridor.org/>

Baggio, J.A., & Papyrakis, E. (2014). Agent Based Simulations of Subjective Well-Being. *Social Indicators Research*, 115(2), 623-635.

2012 Salau, K., Schoon, M.L., **Baggio, J.A.**, Janssen, M.A. (2012). Varying Effects of Connectivity and Dispersal on Interacting Species Dynamics. *Ecological Modelling*, 242, 81-91.

2011 **Baggio, J.A.**, Salau, K., Janssen, M.A., Schoon, M.L., & Bodin, Ö. (2011). Landscape connectivity and predator-prey population dynamics. *Landscape Ecology*, 26(1), 33-45.

2010 **Baggio, J.A.**, & Papyrakis, E. (2010). Ethnic Diversity, Property Rights and Natural Resources. *The Developing Economies*, 48(4), 473-495.

Books and Book Chapters (1 book, 7 book chapters)

2021 **Baggio, J. A.**, & Baggio, R. (2021). La resilienza nei sistemi ecologici e sociali: connettività, diversità resilienza e retroazione. In M. Valeri, A. Scuttari, & H. Pechlaner (Eds.), *Resilienza e sostenibilità - dinamiche globali e risposte locali* (pp. 31–46). Torino: Giappichelli.

Maciejewski, K., **Baggio, J.A.** (2021). Network Analysis. In Biggs, R., de Vos A., Preiser, R., Clements, H., Maciejewski, K., Schlüter, M. (Eds.) *The Routledge Handbook of Research Methods for Social-Ecological Systems* (pp. 321-331). London: Routledge

2020 **Book: Baggio, J.A.**, Baggio, R. (2020). Modelling and Simulations for Tourism and Hospitality. Bristol, Channelview. ISBN: 9781845417413

2017 **Baggio, J.A.**, Calderon-Contreras, R. (2017). Socioecosistemas y Resiliencia. Fundamentos para un Marco Analítico. In Calderon-Contreras, R. (Ed), *Los Sistemas Socioecológicos y su Resiliencia: Casos de Estudio* (pp.23-38). Mexico City, Mexico: UAM Press

Baggio, J.A. (2017). Complex Adaptive Systems, Simulations and Agent-Based Modelling. **In** R. Baggio & J. Klobas (Eds.), *Quantitative research methods in tourism: a handbook, 2nd Edition* (pp. 363-396). Bristol: Channelview.

2015 Dakos, V., Quinlan, A., **Baggio, J.A.**, Bennett, E., Burnsilver, S., Bodin, Ö. (2015). Principle 2: Manage Connectivity. **In** Biggs O., Schlüter, M., and Schoon, M. (Eds), *Principles for Building Resilience: Sustaining ecosystem services in social-ecological systems* (Chapter IV) Cambridge University Press.

2013 Baggio, R., & **Baggio, J.A.** (2013). Modeling Information Asymmetries. **In** M. Kozak, L. Andreu, J. Gnoth, S. S. Lebe, & A. Fyall (Eds.), *In Tourism Marketing: On Both Sides of the Counter* (pp. 156-174), Newcastle, UK: Cambridge Scholars Publishing.

2011 **Baggio, J.A.** (2011). Agent-Based Modelling and Simulations. **In** R. Baggio & J. Klobas (Eds.), *Quantitative research methods in tourism: a handbook* (pp. 99-219). Bristol: Channelview.

Conference Proceedings (3)

2022 Ozlem Ozmen Garibay, O.O., Yousefi, N., Aslett, K., **Baggio, J.**, Hemberg, E., Jayalath, C., Mantzaris, A., Miller, B., O'Reilly U., Rand, W., Garibay, I. "Entropy-Based Characterization of Influence Pathways in Traditional and Social Media," *2022 IEEE 8th International Conference on Collaboration and Internet Computing (CIC)*, Atlanta, GA, USA, 2022, (pp. 38-44), IEEE

2016 **Baggio, J.A.**, & Hillis, V. (2016). Success bias imitation increases the probability of effectively dealing with ecological disturbances. **In** T. M. K. Roeder, P. I. Frazier, R. Szechtman, E. Zhou, T. Huschka, and S. E. Chick (Eds.), *Proceedings of the 2016 Winter Simulation Conference*, (pp.1702-1712). Piscataway: IEEE

2013 **Baggio J.A.**, & Janssen M.A. (2013). Comparing agent-based models on experimental data of irrigation games. **In** R. Pasupathy, S.-H. Kim, A. Tolk, R. Hill, and M. E. Kuhl (Eds.), *Proceedings of the 2013 Winter Simulation Conference* (pp. 1742-1753).

Invited Presentations, and Workshops (34)

2024 Invited presentation: The role of networks in group decision making in uncertain environments for the Panel on Socioecological Network Approaches to Environmental Governance and Collective Action Problems in Agriculture, Workshop on the Workshop (WOW) 7, Bloomington, Indiana, June 19th – June 21st.

2023 Invited Keynote: Group ability to solve problems of increasing social and environmental complexity., International Nature Inspires Creativity Engineers (N.I.C.E.) Conference, Nice, France, June 20th – 22nd

Invited participant: Blue Justice working group to assess the relationship between marine protected areas and social-ecological outcomes, Montpellier, France, June 12th - June 16th

2022 Invited participant: Water, Sustainability and the Commons: Pathways to Water and Food Security, Eulora, Canada, June 13th – June 16th

Invited participant: Blue Justice working group to assess the relationship between marine protected areas and social-ecological outcomes, Montpellier, France, May 30th - June 3rd.

Invited presentation: The interplay between individuals, groups and the environment: harnessing the benefits of diversity to address socio-environmental governance challenges. Webinar (online) Department of Geography and Sustainable Development, University of Miami, Feb 18th.

2021 *Invited presentation:* Understanding the interplay between cognition, institutions, the environment and the build infrastructure to further adaptability and transformability in social-ecological systems Webinar (online) Ideas-For-US, Nov 4th.

Invited presentation and lecture: Social Ecological Network Analysis, Webinar (online) IASC Water Commons Conference, May 20th.

2020 *Invited presentation:* Vulnerability and Complexity of traditional livestock systems in Spain, Webinar (online) Center for Behavior, Institution and The Environment (CBIE) seminar series, Nov. 16th.

Invited presentation: Complexity, Diversity, Cognition and Group's problem solving ability, Webinar (online), Mathematical Biology Seminar Series, UCF, November 5th.

Invited presentation: ABM, Networks and Natural Resource Management, Webinar (online), CASL virtual seminar series, UCF, October 9th.

Invited presentation: Social Tipping Points, Webinar (online) for the Resilience Alliance Reading Group Seminar Series, June 17th.

Invited presentation: General suggestions for managing social ecological systems, Webinar (online) for the Sustainable World, Sustainable Kingdom program, May 19th

2019 *Invited presentation:* Agent-based modeling for assessing the relationship between structure-processes and outcomes, Webinar (online), December 17th:

https://www.dropbox.com/s/oxyd988109q3coz/zoom_0.mp4?dl=0

Invited presentation and participant: Advancing interdisciplinary research on social-ecological networks to understand ecosystem services across scales, SESYNC workshop, Annapolis, MD, USA (September 1).

Invited participant: the Food-Energy-Water Interdependencies of the Global Agrarian Transition, SESYNC Pursuit between 2019-2021, Annapolis, MD, USA

Invited presentation: Common Pool Resources and Complex Collaborative Problem Solving. Summer Lecture Series, Orlando, FL, USA (June 14)

Invited lecture and presentation: Northern Arizona University: Master class on food-water and energy systems in a global economy, Presentation on Robustness of networks in coupled infrastructure systems. Flagstaff, AZ, USA (May 13-16).

Invited presentation: University of Arizona: The importance of cognitive diversity for sustaining the commons, 2nd Workshop on Common Pool Resources: Working Together, University of Arizona, Tucson USA (March 7-8)

2018 *Invited participant:* the Testing and extending Ostrom's frameworks: quantitative synthesis and modeling of social-ecological dynamics, SESYNC Pursuit between 2018-2020, Annapolis, MD, USA

2017 *Invited presentation:* Laboratorio Nacional de Ciencias de la Sostenibilidad, UNAM (Universidad Nacional Autonoma de Mexico): Social-Ecological Networks: how structural properties influence social-ecological system's resilience, Mexico City, Mexico (December 4th).

Invited presentation: Ohio State University: Individuals, Networks and Institutions: what drives the successful management of social-ecological systems?, Columbus, OH, USA (November 16th)

Invited presentation (job talk): University of Central Florida: *Institutional design, cognitive abilities and networks: explaining resilience of social-ecological systems*, Orlando, FL, USA (October 18th).

Invited presentation: University of Victoria: *Assessing potential drivers of Social-Ecological system robustness: networks, institutional design principles and agent based modelling*, Victoria, BC, Canada (April 5th)

Invited presentation (job talk): UC Davis, Department of Environmental Science and Policy: *Using networks and agent based modelling to analyze social-ecological systems*, Davis, CA, USA (February 8th)

Invited presentation: Utah Valley University: *Identifying drivers of Socio-Ecological System's resilience: integrating networks and agent based modelling*, Orem, UT, USA (January 23rd)

2016 Invited Presentation: 2016 Winter Simulation Conference: *Success biased imitation increases the probability of effectively dealing with ecological*, Washington DC, USA (December 11-14)

Invited Presentation: Baggio J. A., *Striving for a Successful Management of Biodiversity Conservation and Ecological Disturbances*. UDWR-USU Brown Bag Luncheon Seminar Series, Salt Lake City, UT, USA (October 11). Video available at: http://qcnr.usu.edu/research/centers/usgs_seminars

2015 Invited Presentation: Taller de Elaboracion de Seminarios Virtuales de la Red de Socio-Ecosistemas y Sustentabilidad: *Que es un Ecosistema*, Cuernavaca, Mexico (November 17 – 19) (Given in Spanish)

Invited Presentation: Taller de Elaboracion de Seminarios Virtuales de la Red de Socio-Ecosistemas y Sustentabilidad: *Elementos de Socio-Ecosistemas*, Cuernavaca, Mexico (November 17 – 19) (Given in Spanish)

Invited Presentation (job talk): Utah State University, Department of Environment and Society: *Modelling and Analyzing Social-Ecological Systems: integrating multiple methods to devise robust policies*, Logan, UT, USA (February 22 – 24)

2014 Invited presentation: Simposio sobre las Aproximaciones y metodologías para la evaluación de cambio ambiental: experiencias desde los sistemas de monitoreo climático: *Modeling robustness and resilience to climate change: assessing effects of microclimate on agricultural production and the social system.*, Fundacion Natura, Bogota, Colombia (29 October). (Given in Spanish).

Invited Presentation: Coloquio Internacional: Resiliencia: Una aproximación multidisciplinaria al Cambio Climático: *The origins of Resilience: Is it a bridging concept?* UAM Cuajimalpa, Mexico City, Mexico (18-19 June). (Given in Spanish)

2013 Invited presentation: Claremont Graduate University. *Agent Based Modelling of lab experimental data: Cooperation in asymmetric commons dilemma*. Claremont, California, USA.

Conferences, Workshops participation and Presentations (38)

2024 Baggio, J.A. [#]Epstein G., [#]Lambert, J., ^{*#}Obado-Joel, J., ^{**}Gordian, F., *Assessing the effect of Ostrom Institutional Design Principles on conflict, inequality and resource conditions via recent advances in natural language processing*, Southern Political Science Association (SPSA) anual conference, New Orleans, Louisiana, January (9 – 13)

Vallury, S., Baggio, J.A. *Social inequalities, institutional change and the persistence of institutions*, Annual Midwest Political Science Association Conference (MPSA), Chicago, Illinois, April (4 – 7)

- 2023** Erfurth, S., Wildemeersch, M., Baggio, J., Kumar, R., Garrick, D. *Governing Common Pool Resources in Fragile Political Systems: Modelling Behaviour, Institutions, and Social-Ecological Dynamics*, EGU 2023, Vienna, Austria, (April 23-28)
- Andrews, H., Baggio, J.A. *Understanding Climate Change Perception: The Structure of Socio-Psychological Networks in Climate Change Beliefs and Behaviors* 2023 Southern Political Science Association Annual Conference St Pete Beach, FL, USA (Jan. 11-14)
- 2022** Morales Reyes, Z., Baggio, J.A., Sánchez Zapata, J.A., Pérez Ibarra, I. *Vulnerabilidad y complejidad de los sistemas ganaderos tradicionales en España*, paper presented at the XIV Congreso Español de Sociología 2022, Murcia, Spain, (June 29 – July 2)
- 2020** Baggio, J.A., *Cognitive abilities for collective action: from individuals to nation states*. Paper and at the 3rd Workshop on Common Pool Resources: Working Together, Arizona State University, Tempe USA (March 11-13).
- 2019** Baggio, J.A., *Empirically Grounded Agent-Based Models in Tourism*. Paper at the 5th World Research Summit for Tourism and Hospitality, Orlando, FL, USA, (December 13-16)
- Baggio, J.A., *Individual cognitive abilities and group ability to adaptively manage common pool resources*. Paper at the Earth System Governance Conference, Oaxaca, Mexico, (November 6-9)
- Baggio, J.A., *Scale Mismatches in coastal systems*. Paper at the AESS conference, Orlando, FL, USA (June 26-29)
- Baggio, J.A., *Cognitive abilities and group adaptability to changes*. Paper at the AESS conference, Orlando, FL, USA (June 26-29)
- 2017** Baggio, J.A., Freeman J., Coyle, T., Nabity, S., Nguyen T., Elpers K., Hancock, D., *Individual cognitive abilities and group adaptability to changing social and environmental conditions*, Poster at the II Conference of the program on ecosystem change and society, Oaxaca, Mexico (November 7-10)
- Baggio, J.A., *Managing ecological disturbances: Learning and the structure of social-ecological networks*. Paper at the II Conference of the program on ecosystem change and society, Oaxaca, Mexico (November 7-10)
- Baggio, J.A. *Constraints in identifying and analyzing social-ecological networks: data and common currencies*. Paper at the 2017 Resilience Conference, Stockholm, Sweden (August 21-24).
- Nabity, S., Freeman, J., Baggio, J.A., Coyle, T., Nguyen, T., Elpers, K., *Cognitive abilities and the resilience of common pool resource systems to ecological change*. Poster presented at the 2017 Resilience Conference, Stockholm, Sweden (August 21-24).
- Meredith, G., Baggio, J.A., Brunson, M., *Inter-agency management of rangelands: success biased learning effects on innovation adoption rates*. Poster presented at the 2017 Resilience Conference, Stockholm, Sweden (August 21-24).
- Meredith, G., Baggio, J.A., Brunson, M., *Inter-agency collaboration in natural resource governance: the case for exponential random graphs*. Poster presented at the 2017 Resilience Conference, Stockholm, Sweden (August 21-24).
- Baggio, J.A., Valury S., Schoon, M., *Modelling the management of networked landscapes: the importance of learning and strategy diversity*. Paper at the 2017 International Association for the Study of the Commons Conference, Utrecht, Netherlands (July 10-14)

Nabity S., Baggio, J.A., Freeman, J., Nguyen, T., Hancock, T., Elpers, K., Coyle, T., Pillow, D., *Cognitive abilities and group adaptability in a common pool resource game*. Paper at the 2017 International Association for the Study of the Commons Conference, Utrecht, Netherlands (July 10-14)

- 2016** Baggio J.A., *Conservation on private landscapes: social learning and social networks*. Paper at the North American Congress for Conservation Biology, Madison, WI, USA (July 17-20)

Invited expert for a workshop on “Synthesizing Coding Efforts for SES Research”, SESYNC, Annapolis, MD, USA (July 6-7)

Sayles, J., Baggio J.A. *Social-ecological network analysis of scale mismatches in estuary watershed restoration*. Paper at the 2016 Spring Runoff Conference, Logan, UT, USA (April 5 – 6)

- 2015** Baggio J.A., *Analyzing Design Principles to diagnose Common Pool Resources: methodological challenges and possible solutions*. Paper at the 2015 Biennial Global Conference of the International Association for the Study of the Commons, Edmonton, Alberta, Canada, May 25-29.

Hillis, V. and Baggio J.A. *A cultural evolutionary model of crop disease prevention in a networked social-agroecological system*. Paper at the 2015 Biennial Global Conference of the International Association for the Study of the Commons, Edmonton, Alberta, Canada, May 25-29.

Janssen, M.A. and Baggio, J.A. *Using Agent-Based Models to Compare Behavioral Theories on Experimental Data: Application for Irrigation Games*. Paper at the 2015 Biennial Global Conference of the International Association for the Study of the Commons, Edmonton, Alberta, Canada, May 25-29.

- 2014** Baggio, J.A., Galafassi D., Bodin, Ö., Janssen M.A., Schoon M.L.. *Social-Ecological Connectivity in the Lab*. Paper at the 2014 Resilience Conference, Montpellier, France (4-8 May).

Burnsilver, S., Baggio, J.A., DeDomenico, M., Arenas, A., Kofinas, G. (2014) *Multiplexity in food sharing and cooperative networks: Implications for household vulnerability in the Alaskan North*. Paper at the 2014 Resilience Conference, Montpellier, France (4-8 May)

Baggio, J.A., Nelson, H. (2014) *Linking social networks to opinion formation: how social networks influence social opposition to large infrastructure development in Southern California*. Paper at the 2014 Resilience Conference, Montpellier, France (4-8 May)

Sayles, J., Baggio, J.A. (2014). *A social-ecological approach to estuary restoration planning: integrating social networks into landscapes*, 2014 Salish Sea Ecosystem Conference, Seattle, Washington, USA (April 30 – May 2).

- 2013** Baggio, J.A.. (2013). *Synchronization of Management Strategies*. Paper at the 2013 Computational Social Science Society of America Annual Conference, Santa Fe, New Mexico, USA (22 – 25 August).

Schoon, M.L., Baggio, J.A., Salau, K. & Janssen, M. (2012). *Modeling Decision-making across Habitat Patches: Insights on Large-Scale Conservation Management*. Paper at the 2012 Computational Social Science Society of America Annual Conference, Santa Fe, New Mexico, USA (18 – 21 September).

- 2011** Salau, K., Schoon, M. L., Baggio, J. A., & Janssen, M. (2011). *Assessing the role of connectivity and dispersal in interacting species dynamics*. Paper at the 2011 Computational Social Science Society of America Annual Conference, Santa Fe, New Mexico, USA (9 – 12 October).

Baggio, R., & Baggio, J. A. (2011). *Experiencing information asymmetries in tourism*. Paper at the 4th Advances in Tourism Marketing Conference (ATMC), Maribor, Slovenia (6-9 September).

Salau K., Baggio J. A., Schoon M.L., & Janssen, M. A. (2011). *Management and Dynamics in a Predator-Prey Metapopulation*. Paper at the Resilience Conference, 2011, Arizona State University, Tempe, USA (11 – 16 March, 2011)

Baggio, J.A. (2011). *Multiple managers and heterogeneous landscapes: an integrated social-ecological network modelling approach*. Paper at the Resilience Conference, 2011, Arizona State University, Tempe, USA (11 – 16 March, 2011)

2009 Baggio, J. A., Schoon, M. L., Salau, K., & Janssen, M. A. (2009). *Managing Networked Landscapes*. Paper at the 2009 North American Association for Computational Social and Organization Sciences Annual Conference, Arizona State University, Tempe, USA (23-24 October, 2009).

Baggio, J. A., & Papyrakis, E. (2009). *The Curse of Natural Resources: Ethnic Fractionalization vs Polarization*. Paper at the 8th International Conference of the European Society for Ecological Economics, Ljubljana, (29 June – 2 July).

Baggio, J. A., & Papyrakis, E. (2009). *Ethnic Diversity, Property Rights and Natural Resources*. Paper at the European Association of Environmental and Resource Economists 17th Annual Conference, Amsterdam (24 - 27 June 2009),

Baggio, J. A., Salau, K., Bodin, Ö., Janssen, M. A., & Schoon, M. L. (2009). *Landscape connectivity, patch centrality and predator-prey population dynamics*. Paper at the The Center for the Study of Institutional Diversity's weekly Wednesday afternoon lecture series, Arizona State University, Tempe, USA (29 April).

Teaching

University of Central Florida

Graduate Level:

- Political Network Analysis POS 6729 (Spring 2021, Spring 2024)
- Advanced Quantitative Methods in Political Research POS 7745 (Fall 2019, Fall 2020, Fall 2022, Fall 2023)
- Networks in political science, Theory and Applications POS-6938 (Spring 2019)
- Environmental Security Online INR 6356 (Fall 2023)

Undergraduate Level:

- Honors Sustainability PUP 3204H (Spring 2023, Spring 2024)
- Global Environmental Politics Online INR 4350 (Spring 2023)
- Sustainability Online PUP 3204 (Fall 2019, Spring 2020, Fall 2020, Spring 2021, Spring 2022, Fall 2022, Fall 2023)
- Sustainability PUP 3204 (Fall 2018, Spring 2019, Spring 2020)

Independent/Directed Research:

- Spring 2024: Zanielle Wells: Honor Thesis assessing public sentiment and policies interdependence s well as the distributional effects of conservation policies in the Indian River Lagoon.
- Fall 2023: Douglas Rivero: Finalizing a paper on comparing how socio-demographic and cultural characteristics of 3 Caribbean countries affect policies aimed at addressing the Sustainable Development Goals
- Fall 2023: Zanielle Wells: Directed Readings, devising research question, methods and literature on assessing public sentiment and policies interdependence s well as the distributional effects of conservation policies in the Indian River Lagoon
- Summer 2023: Turan Keles (Graduate): Working on creating NLP models to extract data from scanned PDF to analyze economic differences in relation to Turkish regions and politics.
- Summer 2023: Alanna Fulk (Graduate): Working on developing methods to assess information/disinformation campaigns online.
- Summer 2023: Rafael Hurtado (Graduate): Literature review, proposal defense paper draft and working on an ABM to assess the relationship between climate change – ecosystem services – socio-economic and political context and violence.
- Spring 2023: Douglas Rivero (Graduate): literature review, methods and analysis of policies that aim to sustain the sustainable development goals in 4 Caribbean island nations).
- Summer 2022: Rafael Hurtado (Graduate): literature review to assess relationship between ecosystem services and security issues in the Caribbean.
- Spring 2022: Shemuwel Russ: Honor Thesis Thesis: assessing the relationship between college factor and political preferences.
- Fall 2021: Shemuwel Russ: Honor Thesis directed readings: assessing the relationship between college factor and political preferences.
- Spring 2021: Haley Andrews (Undergraduate): developing an agent based model focusing on factors affecting pro-environmental behavior
- Fall 2020: Haley Andrews (Undergraduate): reviewing factors affecting pro-environmental behavior
- Fall 2020: Ozgur Kayaalp (Graduate): systematic literature review on migration and environmental change in the middle
- Summer 2020: Jennifer Joel (Graduate): on building a dataset and perform analysis to assess the effects of conflict and environmental change on women empowerment in the Chad Region.
- Spring 2020: Alex Potocki (Undergraduate): on the relation between the evolution of rare-earth trade networks and geopolitical events.
- Spring 2020: Logan Kerschner (Graduate): Work on advanced time-series analysis to assess synchronization and causality in air incursion time-series.
- Spring 2019: Felicia Gordian (Undergraduate): Work on the relationship between perceptions of sustainability and socio-demographic and economic factors that may shape such perception

Other Institutions:**Graduate Level:**

- Research Approaches to Human-Environment Systems (Spring 2017) (Utah State University, Logan, UT, USA)

Mixed Graduate/Undergraduate Level:

- Modelling Human-Environment Systems (Fall 2015, Spring 2016, Fall 2016) (Utah State University, Logan, UT, USA)

Undergraduate Level:

- Quantitative Assessment of Environmental and Natural Resource Problems (Fall 2017 – Utah State University, Logan, UT, USA)
- Social Simulations (co-taught with Marco Janssen) (Spring 2014, Spring 2015) (Arizona State University, Tempe, AZ, USA)
- Macroeconomics (Teaching Assistant) (Spring 2009, Spring 2010) (University of East Anglia, Norwich, UK)
- Introduction to Development Studies (Teaching Assistant) (Fall 2007, Fall 2008) (University of East Anglia, Norwich, UK)

Independent/Directed Studies:

- Spring 2018: Network analysis (non-evaluated) with Stan Rhodes and Gwendwr Meredith (Graduates) (Utah State University, Logan, UT, USA)
- Fall 2017: R for statistical analysis and modelling with Netlogo with Stan Rhodes (Graduate) (Utah State University, Logan, UT, USA)
- Fall 2017: Python for statistical analysis and modelling with Netlogo with Laurent Merchant (Graduate) (Utah State University, Logan, UT, USA)
- Spring 2016: Modelling food or fuel choices in Iowa with Michelle Arnold (Graduate) (Utah State University, Logan, UT, USA)
- Spring 2016: Modelling urban sprawl with Lindy Perry (Graduate) (Utah State University, Logan, UT, USA)

Honors Courses and Labs

- Honors Book Lab on Resilience in Social-Ecological Systems, Utah State University, Logan, UT, USA

Invited Lectures and short Courses - 12 -**Since at UCF**

- 2023: Course Level: Undergraduate: Course Title: Systems Thinking. Title of Lecture: Computational Models for complex adaptive systems – online (October 24), Arizona State University, Tempe, AZ, USA
- 2022: Course Level: Undergraduate: Course Title: Systems Thinking. Title of Lecture: Agent-Based Modelling – online (October 25), Arizona State University, Tempe, AZ, USA
- 2021: Course Level: Undergraduate: Course Title: Systems Thinking. Title of Lecture: Agent-Based Modelling – online (October 26), Arizona State University, Tempe, AZ, USA
- 2020: Course Level: Undergraduate: Course Title: Systems Thinking. Title of Lecture: From Networks to Social-Ecological Networks – online, (November 3), Arizona State University, Tempe, AZ, USA
- 2019: Course Level: Graduate: Course Title: Interdisciplinary Graduate Seminar. Title of Lecture: From individual, to communities: complex social-ecological feedbacks , (November 20) University of Central Florida, Orlando, FL, USA
- 2019: Course Level: Honors Undergraduate: Course Title: Introduction to Game Theory, ECO 4400H. Title of Lecture: Common Pool Resources and Complex Problem Solving , (October 19) University of Central Florida, Orlando, FL, USA

- 2019: Course Level: Graduate and Post-Graduate: Complex Network and Multilayer network lecture at the Master class on food-water and energy systems in a global economy. Northern Arizona University, Flagstaff, AZ, USA (May 13-16).

While at previous Institutions

- 2017: Course Level: Graduate students and faculty; Course Title: Network Analysis for Social-Ecological Systems, (Laboratorio Nacional de Ciencias de la Sostenibilidad, (December 4-8), Universidad Nacional Autonoma de Mexico, Mexico City, Mexico.
- 2014: Course Level: Undergraduate; Course Title: System Thinking; Guest Lecture on Complex Systems and Agent Based Models (October), Arizona State University, Tempe, AZ, USA.
- 2013: Course Level: Undergraduate; Course Title: System Thinking; Guest Lecture on Complex Systems and Modelling; Guest Lecture on Agent Based Models (October), Arizona State University, Tempe, AZ, USA.
- 2012: Course Level: Graduate and Post-PhD: Lectures on:
 - Comparing different modelling approaches (system dynamics vs agent based models)
 - Modelling decision making in complex ecological systems
 - Representing synthetic population and social networks (with Ingrid Van Putten)
 (July), IMBER ClimEco3 Summer School, Ankara, Turkey.

Advising and Mentoring

Graduate Students Chair

Doctoral:

Devyn Escalanti (chair), Ms Escalanti is working on the relationship between epidemics and conflict in the sub-Saharan African context.

Rafael Hurtado (chair), Mr Hurtado is working on assessing the interplay between resources, conflict and recruitment in non-state violent organizations.

Alanna Fulk (chair). Ms Fulk is working on better assessing the relationship between information and security and how to address mis and dis information.

Master:

Sidrah Tufail (chair) Master Student: Working on environmental security in Pakistan.

Honors Thesis:

Zanielle Wells (chair) Honors in the Major: Working on policies

Committee member (PhD and Master)

- Erika Ricci (PhD - Security Studies Program)
- Bruce Miller (PhD - Industrial Engineering)
- Jonathan Mahan (PhD - Security Studies Program)
- Uchenna Okwara (PhD – Security Studies Program)
- Turan Keles (PhD – Security Studies Program)
- Leah Faure (PhD – Security Studies Program)
- Mahdy Abdulkareem (PhD – Public Administration)
- Dhanya Nair (Master – Political Science)

Other Universities:

- Carmen Calzado (committee member (ex co-Chair with Mark Brunson), PhD in environment and society, Utah State University

Past Postdoctoral Research Associate

Dr. Joshua Lambert, now analyst at SparkCognition.gov

Dr. Graham Epstein, now research associate at the University of Waterloo

Past Students (my role in parenthesis)

- 2023: Bruce Miller (committee member) – PhD in Industrial Engineering
- 2023: Stanley Rhodes (committee member, ex-Chair) – PhD in Environment and Society, Utah State University
- 2023: Ozgur Kayaalp (committee member) – PhD in Security Studies, UCF
- 2022: Jennifer Obado Joel (chair) – PhD in Security Studies, UCF
- 2022: Frida Bahia (committee member) – PhD in Tourism and Hospitality, UCF
- 2022: Shemuwel Russ (chair) – Honors in the Major Thesis Political Science, UCF
- 2022: Lux Miranda (committee member) – MS in Industrial Engineering, UCF
- 2022: Davide Dell’Isola (committee member) – PhD in Security Studies Program, UCF
- 2019: Gwendwr Meredith (committee member) – PhD in Human Dimensions of Ecosystem Science and Management, Utah State University
- 2019: Ryan James (committee member) – MS in Water Resources Engineering, Utah State University
- 2018: Riana Gayle (co-Chair with Jordan Smith) – MS in Ecology, Utah State University
- 2018: Lyndi Perry (committee member) – MS in Landscape and Urban Planning, Utah State University
- 2018: Jeffrey Height (committee member) – MS in Watershed Sciences, Utah State University,
- 2018: Jose Camilo Fagua (committee member) – PhD in Wildland Resources, Utah State University
- 2016 – 2018 Samantha Marie Nabity – Major in Anthropology, (Supervisor) – Undergraduate Research Assistant.
- 2016 – 2017 Tam Nguyen – PhD in Computer Science, (Supervisor) – Graduate Research Assistant
- 2016 – 2017 Erica Hawvermale – Major in Anthropology, (Supervisor) – Undergraduate Research Assistant.

Service

University, College and Departmental Service

University of Central Florida, Orlando, FL

University Level:

- 2021 - Present: Program Coordinator: Certificate in Network Analysis and Applications
- 2021: Reviewer for Limited Submission Internal Competition for ORC (for UCF Seed Funding Program - IR: Interdisciplinary Research)
- 2020: Part of the curriculum development team for an in fieri Master degree in Sustainable Development in partnership with the Sustainable Development Goal Academy.
- 2019-2020 Leading the development of a new Certificate in Network Analysis and Applications in collaboration with the Department of Computer Science and the School of Public Administration.
- 2019: Judge at the Graduate Poster Competition for the 16th Annual Graduate Research Forum
- 2019: Reviewer for Limited Submission Internal Competition for ORC (for proposal to be submitted at the Department of Defense)

College Level:

- 2023: Research Incentive Award Committee
- 2022: Teaching Incentive Award Committee
- 2021: Research Incentive Award Committee

Department Level:

- 2024: Chair of the Promotion and Tenure Committee (tasked with revising promotion and tenure guidelines for the School of Politics, Security and International Affairs).
- 2024: PhD Student Success Committee
- 2024: Search Committee member for the external School Director Search
- 2024: Search Committee member for the Intelligence and Security Assistant Professor Track
- 2022: Student Award Committee
- 2022: PhD Student Success Committee
- 2020-2022: PhD Program and Planning Committee
- 2020-2022: Strategic Planning Committee
- 2018-2022: Computer and Technology Committee
- 2019-2020: Peer Evaluation Committee
- 2018-2020: PhD Student Success Committee

Utah State University, Logan, UT

University Level:

- Spring 2017: Honors' program admission committee, Utah State University

College Level:

- Spring 2017: Curricular subcommittee, College of Natural Resources, Utah State University

Department Level:

- Fall 2017: Graduate studies curriculum committee, Department of Environment and Society, Utah State University
- 2016-2017: Hiring committee member for the Department of Environment and Society, Utah State University

International / Discipline Service

Editorial appointments:

- 2021 – Present Associate Editor, People and Nature
- 2021 – Present Associate/Subject editor, Ecology and Society.

Reviews for Doctoral Thesis and Research programs and foundations:

- 2024 – External Committee for promotion and tenure at Wageningen University
- 2023 – Reviewer for the NSF Navigating the New Arctic Program (NNA)
- 2023 – Reviewer for the European Research Council Advanced Grants (ERC)
- 2022 – PhD Reviewer for the Department of Mathematics at the University of Trento, Italy
- 2022 – Reviewer for the NSF Science and Technology Center program (STC)
- 2021 – PhD Reviewer for the Department of Informatics and Mathematics at the University of Osnabrück, Germany
- 2020 - Reviewer for the German Academic Exchange Service (DAAD) proposals for postdoctoral funding
- 2020 – Evaluation of research, service, outreach and teaching for the 5-year assessment of research chair for the South Africa National Research Foundation (NRF)
- 2019 - Reviewer for the Swiss National Science Foundation, Switzerland
- 2019 - Reviewer for the Natural Science and Engineering Research Council (NSERC), Canada
- 2019 - Reviewer for the New Hampshire Sea Grant program, NH, USA
- 2018 - Evaluation of research output and standing for a peer research for the South Africa's National Research Foundation (NRF)
- 2018 - SESYNC Mentor invitation (competitive mentorship program, in which mentors apply and are selected based on interdisciplinary research outputs and ideas).

Committee member and session organization and chairing at Conferences:

- 2020 Organizer: Roundtable discussion on the role of cognitive ability in managing common pool resources and in social-ecological systems, CBIE Seminar Series, Arizona State University Online (November 2nd).
- Co-organizer of a Half Day workshop: Integrating Psychological Theory and Environmental Social Science, at the 3rd IASC Workshop, Tempe, AZ, USA (March 11-13)
- 2019 Session Chair and Convener: Sustaining coastal systems: challenges and (opportunities) at the AESS conference, Orlando, FL, USA (June 26-29)
- Track program committee for The Environmental and Sustainability Applications track at the 2019 Winter Simulation Conference, National Harbor, MD, USA (December 8-11)
- 2017 Track program committee for The Environmental and Sustainability Applications track at the 2017 Winter Simulation Conference, Washington, DC, USA (December 11-14)
- Session Chair and Convener: Social Tipping Points at the II Conference of the program on ecosystem change and society, Oaxaca, Mexico (November 7-10)
- Session Chair and Convener: Social-Ecological Networks current and future research frontiers for Resilience 2017, Stockholm, Sweden (August 21-24)
- Co-organizer with Orjan Bodin of a workshop on social-ecological networks. Stockholm (August 20th).
- 2016 Track program committee for The Environmental and Sustainability Applications track at the 2016 Winter Simulation Conference, Washington, DC, USA (December 11-14)
- 2015 Session Organizer: Schoon, M.L., Baggio J.A., Anderies, J.M., Janssen M.A.. The Robustness of Coupled Infrastructure Systems and Complexity: Satellite session at the the 2015 Conference on Complex Systems, Tempe, AZ, USA (28 September – 2 October)
- Session Organizer: Hodbod, J., Baggio, J.A., Milkoreit, M., Schoon, M.L.. Concepts, Methods and Measurements of Social Tipping Points: Satellite session at the 2015 Conference on Complex Systems, Tempe, AZ, USA (28 September – 2 October)
- 2014 Session Chair and Convener: Baggio, J.A., Burnsilver S., Bodin, Ö. Networks and Cooperation: are social network characteristics generalizable or specific to the environment in which they are embedded? At the 2014 Resilience Conference, Montpellier, France (4- 8 May)

Reviewer for the following journals (in alphabetical order – over 172 reviews for 60 different outlets in total)

Ambio, Biological Conservation, Biological Invasions, CoGen Social Science, Cognition, Earth's Future, Ecological Applications, Ecological Economics, Ecological Modelling, Ecology and Society, Ecosystems, Ecosystems and People, Environmental Research Letters, EPJ Data Science, Global Environmental Change, Heliyon, International Journal of the Commons, Journal of Applied Ecology, Journal of Cleaner Production, Journal of Computational Social Science, Journal of Destination Marketing & Management, Journal of Environmental Management, Journal of Environmental Research, Journal of Happiness Studies, Journal of Sustainable Tourism, Journal of Travel Research, Journal of Water Resources Planning and Management, Land, Landscape and Urban Planning, Landscape Ecology, Methods in Ecology and Evolution, Ocean and Coastal Management, People and Nature, People and Nature, Physics Review Letters A, PlosOne, Proceedings of the National Academies of Sciences (PNAS), Policy Studies Journal, Proceedings of the Royal Society A, Proceedings of the Royal Society B, Regional Environmental Change, Regulation and Government, Royal Society Interface, Science of the Total Environment, Scientific Reports, Social Indicators Research, Social Science Research, Society and Natural Resources, Sustainability, Tourism and Hospitality, Utilities Policy, WinterSim16, WinterSim17, WinterSim18, WinterSim19, World Development

Professional Society Membership

- International Association for the Study of the Commons – Co-Founder of the Behavior and Cognition section.
- Red de Socio-ecosistemas y sustentabilidad (<http://redsocioecos.org>)