

# Peter Kedron

University of California Santa Barbara  
Department of Geography  
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I am an Associate Professor of Geography at the University of California Santa Barbara where I am also core faculty in the Center for Spatial Studies and Data Science. My research develops analytical methods, research approaches, and pedagogical models to build a reproducible and reliable spatial data science. My recent research focuses on bringing a geographic approach to understanding not only what policies work, but what policies work where.

## ACADEMIC APPOINTMENTS

- 2023- **University of California Santa Barbara**  
Associate Professor, Department of Geography  
Core Faculty, Center for Spatial Studies and Data Science
- 2018-2023 **Arizona State University**  
Associate Professor, School of Geographical Sciences and Urban Planning (2021-2023)  
Assistant Professor, School of Geographical Sciences and Urban Planning (2018-2021)  
Core Faculty, Spatial Analysis Research Center  
Faculty Associate, Institute for Social Science Research
- 2016-2018 **Oklahoma State University**  
Assistant Professor, Department of Geography
- 2012-2016 **Ryerson University**  
Assistant Professor, Geography and Environmental Studies  
Faculty Affiliate, Environmental Applied Science and Management
- 2012-2013 **Singapore Institute of Management** (University at Buffalo)  
Adjunct Faculty, Department of Geography
- 2007-2008 **Niagara County Community College**  
Temporary Faculty, Department of Social Sciences

## EDUCATION

- Ph.D. GEOGRAPHY 2012  
Dissertation: *The Evolution of Renewable Energy Production: The Role of Firms, Institutions, & Markets*  
State University of New York at Buffalo | Buffalo, NY
- MA APPLIED ECONOMICS 2005  
University of Michigan | Ann Arbor, MI
- BA ECONOMICS *summa cum laude* 2004  
BA PSYCHOLOGY *summa cum laude*  
State University of New York at Buffalo | Buffalo, NY

## GRANTS AND AWARDS

I have participated in awarded grants totaling \$23,156,744 USD and \$22,000 CAD, of which my recognized contribution was \$1,508,910 USD and \$22,000 CAD.

### Competitive External Grants and Fellowships

- 2024-2025 ESRI  
*Modernizing GIS Education*  
Total Award: \$331,250; (PI, Recognition: \$315,350)
- 2021-2024 NATIONAL SCIENCE FOUNDATION | BCS-2049837  
*Transforming Theory-building and STEM Education by Performing Reproductions and Replications in the Geographical Sciences.*  
Total Award: \$315,082; (Co-PI, Recognition: \$172,417)
- 2021-2022 NSF I-GUIDE & UCGIS | COMMUNITY CHAMPION FELLOW  
*Creating Spatial Data Infrastructure that Supports the Development and Evaluation of Policy,*  
Total Award: \$2,000; (PI, Recognition: \$2,000).
- 2020-2021 NSF GEOSPATIAL SOFTWARE INSTITUTE | COVID-19 RESEARCH FELLOW  
Working with Students to Reproduce COVID-19 Research to Establish the Credibility of Findings and Accelerate Policy Maker Adoption  
Total Award: \$4,000; (PI, Recognition: \$4,000)
- 2020-2021 NATIONAL SCIENCE FOUNDATION | BCS-2032203  
*RAPID: Evaluating the Effectiveness of Location Tracking Technologies used in COVID-19 Contact Tracing Systems.*  
Total Award: \$47,565; (PI, Recognition: \$47,565)
- 2018-2023 USDA | NATIONAL INSTITUTE OF FOOD AND AGRICULTURE (NIFA)  
*Participatory Approaches to Agroecosystem Resilience in times of Drought (ARID)*  
Total Award: \$1,199,940; (Co-I for Oklahoma State University, Sub-award \$171,350; Declined w/ move to ASU).
- 2016-2019 NATIONAL SCIENCE FOUNDATION | BCS-1561021  
*Data Complexity and Spatial Scaling: Prediction Accuracy and Implications for Emerging Landscape Paradigms*  
Total Award: \$121,921; (Co-PI).
- 2013-2018 NATIONAL SCIENCE FOUNDATION | OIA-1301789  
**EPSCoR RII Track 1: Adapting Socio-Ecological Systems to Increasing Climate Variability**  
Total Award: \$20,997,330; (Co-I, Recognition: \$481,965).
- 2013-2018 NATIONAL SCIENCE FOUNDATION | CMMI-1266381  
*Land System Vulnerability and Resilience to Drought: A Multi-Scalar, Comparative Analysis of Public and Private Lands in the American West*  
Total Award: \$365,762; (Assumed PI with move of original PI to NSF in 2017)
- 2013-2018 NATIONAL SCIENCE FOUNDATION | BCS-1339870  
*An Analysis of Innovation and Performance in U.S. Biofuel Firms: Implications for the Biofuel Technological Innovation System*  
Total Award: \$160,000; (Co-PI, Recognition: \$160,000).

## Competitive Internal Grants and Fellowships

- 2022-2023 INSTITUTE OF SOCIAL SCIENCE RESEARCH | Arizona State University  
*COVID-19 as an accelerant of urban expansion into fire-prone wildlands*  
Total Award: \$8,000; (PI Recognition: \$4,000)
- 2021-2022 KNOWLEDGE ENTERPRISE IN D.C. | Arizona State University  
*Policy Research Fellow*
- 2017-2018 COMMUNITY ENGAGEMENT GRANT | Oklahoma State University  
*Dust Bowl Days: Using Interactive Story Maps to Link Past and Present in Cimarron County*  
Total Award: \$2,500 (Co-PI; Recognition: \$2,500)
- 2017-2018 DEAN'S INCENTIVE GRANT | Oklahoma State University  
*The Impact of Related Industries on the Emergence of New Industries: Insights from Renewable Energy;*  
Total Award: \$6,000; (PI; Recognition: \$6,000)
- 2015-2016 NEW INITIATIVE GRANT | Ryerson University  
*A Statistical Analysis of the Behavior of Landscape Metrics across Spatial Scales;*  
Total Award: \$6,000 CAD; (PI; Recognition: \$6,000 CAD)
- 2015 NEW RESEARCH GRANT | Ryerson University  
*The Geographic Distribution of Urban Forest Recovery: The Role of Policy, Trees, and People*  
Total Award: \$5,000 CAD; (PI; Recognition: \$5,000 CAD)
- 2015 SSHRC INSTITUTIONAL GRANT | Ryerson University  
*Inducement and Blocking Mechanisms Impacting the Development of Canadian Renewable Energy Innovation Systems*  
Total Award: \$6,000 CAD; (PI, \$6,000 CAD)
- 2014-2015 LEARNING AND TEACHING ENHANCEMENT GRANT | Ryerson University  
*Interdependent Learning Modules to Support Student Training in Crossing Disciplinary Boundaries;*  
Total Award: \$5,000 CAD; (PI; Recognition: \$5,000 CAD)

## PUBLICATIONS

Google Scholar: [https://scholar.google.com/citations?user=e\\_WSMGkAAAAJ&hl=en&authuser=1](https://scholar.google.com/citations?user=e_WSMGkAAAAJ&hl=en&authuser=1)

Research Gate: [https://www.researchgate.net/profile/Peter\\_Kedron](https://www.researchgate.net/profile/Peter_Kedron)

Note: postdoctoral advisee, graduate student, undergraduate student co-authors are indicated

## Peer-Reviewed Works in Submission

10. Berg, A., Connor, D., **Kedron, P.**, Frazier, A. (In Revision) Remapping California's wildland urban interface: A property-level time-space framework, 2000-2020. *Applied Geography*
09. Li, W., Hsu, C-Y., Wang, S., **Kedron, P.** (In Revision) GeoAI reproducibility and replicability: a computational and spatial perspective. *Annals of the American Association of Geographers*
08. Frazier, A., **Kedron, P.**, Yang, W., Quan, H. (In Revision) America the beautiful: Meeting '30x30' conservation goals through connected protected areas. *Annals of the American Association of Geographers*. (Preprint – <https://doi.org/10.31219/osf.io/m46zn>)
07. **Kedron, P.**, Holler, J., Bardin, S. (In Review) Replicability in Geography: A survey of geographic researchers sheds light on what we mean and if we can. *Annals of the Association of American Geographers*. (Preprint - <https://doi.org/10.31222/osf.io/cgvzp>)

06. Chen, L., Nelson, T., **Kedron, P.**, Willett, D., Cohen, A. (In Review) Bike network connectivity and safety in two midsize California cities. *Computers, Environment, and Urban Systems*.
05. **Kedron, P.** Logical Positivism. (In Review – Invited) *Encyclopedia of Human Geography*. Warf, B. Ed.
04. **Kedron, P.**, Trgovac, D., Holler, J. (In Prep) Reproduction and replications as project based learning in geographic information science. *International Journal of Geographic Information Science*
03. Goodchild, M., Li, W., **Kedron, P.**, Frazier, A., Connor, D., Tong, D. (In Prep) Digital twins in urban informatics.
02. **Kedron, P.**, Song, L., Yang, W., Frazier, A. (In Prep) Protected area connectivity moderates the efficacy of protection on tropical biodiversity: A replication of Brodie et al. 2023.
01. **Kedron, P.**, Holler, J. (In Prep - Invited) Verification and Validation of GIS Applications. *The Geographic Information Science & Technology Body of Knowledge*, John P. Wilson (ed.).

## Peer-Reviewed Journal Articles

44. **Kedron, P.**, Bardin, S., Holler, J., Cliff, S., Fuller, K., Gilman, J., Grady, B., Seely, M., Van Zandergen, A., Yang, W., Yang, X. (Forthcoming) A framework for moving beyond computational reproducibility: Lessons from three reproductions of geographical analysis. *Geographical Analysis* (1-18). (<https://doi.org/10.1111/gean.12370>)
43. Yang, W., **Kedron, P.**, Frazier, A. (2024) Area can substitute for more complicated structural metrics when monitoring protected area connectivity. *Ecological Indicators*, 158, 111387. (<https://doi.org/10.1016/j.ecolind.2023.111387>)
42. **Kedron, P.**, Holler, J., Bardin, S. (2023) Reproducible research practices and barriers to reproducible research: Insights from a survey of geographic researchers. *Annals of the Association of American Geographers*. (Preprint: <http://doi.org/10.31219/osf.io/nyrq9>, Published - <https://doi.org/10.1080/24694452.2023.2276115>).
41. Hoffman, T., **Kedron, P.** (Forthcoming) Controlling for spatial confounding and spatial interference in causal inference: Modeling insights from a computational experiment. *Annals of Geographic Information Science*. (<https://doi.org/10.1080/19475683.2023.2257788>)
40. Connor, D., Berg, A., Kemeny, T., **Kedron, P.** (2023) Who gets left behind by left behind places? *Cambridge Journal of Regions, Economy, and Society* 17(1): 37-58. (Preprint - <https://doi.org/10.1093/cjres/rsad031>, Published - <https://doi.org/10.1093/cjres/rsad031>)
39. Brugere, L., Kwon, Y., Frazier, A., **Kedron, P.** (2023) Improved prediction of tree species richness and interpretability of environmental drivers using a machine learning approach, *Forest Ecology and Management*, 539: 120972. (<https://doi.org/10.1016/j.foreco.2023.120972>).
38. Frazier, A., **Kedron, P.**, Donovan, M. (2023) Advancing a science of scaling in Landscape Ecology. *Landscape Ecology*, 38(3): 613-617. (<https://doi.org/10.1007/s10980-022-01591-w>).
37. **Kedron, P.**, Frazier, A. (2022) How to Improve the Reproducibility, Replicability, and Extensibility of Remote Sensing Research, *Remote Sensing*, 14(21): 5471. (<https://doi.org/10.3390/rs14215471>).
36. **Kedron, P.**, Bardin, S., Hoffman, T., Sachdeva, M., Quick, M., Holler, J. (2022) A Replication of DiMaggio et al. in Phoenix, AZ. *Annals of Epidemiology*, 74: 8-14 (<https://doi.org/10.1016/j.annepidem.2022.05.005>)
35. **Kedron, P.**, Quick, M., Hilgendorf, Z., Sachdeva, M. (2022) Using the specification curve to teach spatial data analysis and explore geographic uncertainties. *Journal of Geography in Higher Education* 46(2): 304-314. (<https://doi.org/10.1080/03098265.2021.1901076>).

34. Roy, A., Nelson, T., Fuller, D., **Kedron, P.** (2022) Assessing the role of geographic context in transportation mode detection from GPS data. *Journal of Transport Geography*. 103330 (<https://doi.org/10.1016/j.jtrangeo.2022.103330>)
33. **Kedron, P.**, Holler, J. (2022) Replicability in geographic science and the search for laws of geography. *Annals of GIS* 28(1): 45-56. (<http://doi.org/10.1080/19475683.2022.2027011>).
32. **Kedron, P.**, Frazier, A.E., Trgovac, A., Nelson, T., Fotheringham, S. (2021) Reproducibility and replicability in geographical analysis. *Geographical Analysis* 53(1): 135-147 (<https://doi.org/10.1111/gean.12221>).
31. **Kedron, P.**, Li, W., Goodchild, M., Fotheringham, S. (2021). Reproducibility and replicability: opportunities and challenges for geospatial research. *International Journal of Geographical Information Science* 35(3): 427-445 (<http://doi.org/10.1080/13658816.2020.1802032>).
30. Sui, D., **Kedron, P.** (2021) Reproducibility and replicability in the context of the contested identities of geography. *Annals of the American Association of Geographers* 111(5): 1275-1283 (<https://doi.org/10.1080/24694452.2020.1806024>).
29. Goodchild, M., Fotheringham, S., **Kedron, P.**, Li, W. (2021) Introduction: Forum on Reproducibility and Replicability in Geography. *Annals of the American Association of Geographers* 111(5): 1271-1274. 111(<https://doi.org/10.1080/24694452.2020.1806030>)
28. Frazier, A., **Kedron, P.**, Ovando-Montejo, G., Zhao, Y. (2021) Scaling spatial pattern metrics: Impacts of composition and configuration on downscaling accuracy. *Landscape Ecology*. (<https://doi.org/10.6084/m9.figshare.11413395.v1>).
27. Vadjunec, J., **Kedron, P.**, Fagin, T., Boardman, A. (2021). Footprints from the Dust Bowl: Using Historical Geographic Information Systems (HGIS) to Explore Land Access, Use, and Survivability in “No Man’s Land”. *Annals of the American Association of Geographers* 111(7): 1906-1930. (<https://doi.org/10.1080/24694452.2020.1867497>).
26. Ovando-Montejo, G., **Kedron, P.**, Frazier, A.E. (2021) Relationship between urban size and configuration: Scaling evidence from a hierarchical system in Mexico. *Applied Geography* 132(3):102462 (<https://doi.org/10.1007/s10980-021-01349-w>).
25. Mirtich, L., Conway, M., Salon, D., **Kedron, P.**, Chauhan, R. (2021) How stable are transport-related attitudes over time? *Transport Findings* (<https://doi.org/10.32866/001c.24556>)
24. **Kedron, P.**, Kogler, D., Rochetta, S. (2020) Mind the Gap: Advancing Evolutionary Approaches to Regional Development with Progressive Empirical Strategies. *Geography Compass* (<https://doi.org/10.1111/gec3.12501>).
23. Yang, X., Crews, K., **Kedron, P.** (2020) Response of potential woody cover of Texas savanna to climate change in the 21<sup>st</sup> century. *Ecological Modelling* 431(1), 109177 (<https://doi.org/10.1016/j.ecolmodel.2020.109177>).
22. Yang, X., Crews, K., Frazier, A.E., **Kedron, P.** (2020) Appropriate spatial scale for potential woody cover observation in Texas Savanna. *Landscape Ecology* 35(1): 101-112 (<https://doi.org/10.1007/s10980-019-00933-5>)
21. **Kedron, P.**, Zhao, Y., Frazier, A.E. (2019) Three Dimensional (3D) spatial metrics for objects. *Landscape Ecology* 34(9): 2123-2132. (<https://doi.org/10.1007/s10980-019-00880-1>).
20. Frazier, A.E., Vadjunec, J., **Kedron, P.**, Fagin, T. (2019) Linking landscape ecology and land system architecture for land system science: an introduction to the special issue. *Journal of Land Use Science* 14(2): 123-134. (<https://doi.org/10.1080/1747423X.2019.1660728>)

19. **Kedron, P.**, Frazier, A.E., Ovando-Montejo, G., Wang, J. (2018) Surface metrics for landscape ecology: A comparison of landscape models across ecoregions and scales. *Landscape Ecology* 33(9): 1489-1504. (<https://doi.org/10.1007/s10980-018-065-1>)
18. **Kedron, P.**, Bagchi-Sen, S. (2018) Explanations of firm survival in renewable energy in the United States: A study of ethanol refineries. *European Planning Studies* 26(11): 2237-2255. (<https://doi.org/10.1080/09654313.2018.1530150>)
17. Greene, C., **Kedron, P.** (2018) Beyond Fractional Coverage: A Multilevel Approach to Analyzing the Impact of Urban Tree Canopy Structure on Surface Urban Heat Islands. *Applied Geography* 95: 45-53 (<https://doi.org/10.1016/j.apgeog.2018.04.004>).
16. Vadjunec, J., Frazier, A.E., **Kedron, P.**, Fagin, F., Zhao, Y. (2018) A land systems science framework for bridging land architecture and landscape ecology. *Land* 7(7) 27. (<https://doi.org/10.3390/land7010027>).
15. Frazier, A.E., Wikle, T., **Kedron, P.** (2018) Exploring the Anatomy of Geographic Information Systems and Technology (GIS&T) Textbooks. *Transactions in GIS* 22(1). (<https://doi.org/10.1111/tgis.12301>).
14. Frazier, A.E., **Kedron, P.** (2017) Landscape metrics: Past progress and future directions. *Current Landscape Ecology Reports* 2(3): 63-72. (<https://doi.org/10.1007/s40823-017-0026-0>).
13. Frazier, A.E., **Kedron, P.** (2017) Comparing forest fragmentation in Eastern U.S. forests using patch-mosaic and gradient surface models. *Ecological Informatics* 41: 108-115. (<https://doi.org/10.1016/j.ecoinf.2017.08.002>)
12. **Kedron, P.**, Bagchi-Sen, S. (2017) Limits to policy-led innovation and industry development in US biofuel. *Technology Analysis and Strategic Management* 29 486-499 (<https://doi.org/10.1080/09537325.2016.1227066>)
11. Calvert, K., **Kedron, P.**, Baka, J., Birch, K. (2017) Geographical perspectives on sociotechnical transitions and emerging bio-economies: introduction to a special issue. *Technology Analysis and Strategic Management* 29: 477-485. (<https://doi.org/10.1080/09537325.2017.1300643>)
10. **Kedron, P.** (2016) Identifying the geographic extent of environmental inequalities: A comparison of pattern detection methods. *The Canadian Geographer* 67(4): 479-492 (<https://doi.org/10.1111/cag.12297>) .
09. Rogerson, P., **Kedron, P.** (2016) A changepoint statistic with uniform type I error probabilities. *Communication in Statistics* 46(16): 4663-4672 (<https://doi.org/10.1080/03610926.2014.927495>).
08. **Kedron, P.** (2015) Environmental Governance and Shifts in Canadian Biofuel Production and Innovation. *The Professional Geographer* 67(3): 385-395 (<https://doi.org/10.1080/00330124.2014.983589>).
07. Trgovac, A., **Kedron, P.**, Bagchi-Sen, S. (2015) Geographic variation in male suicide rates in the United States. *Applied Geography* 62: 201-209. (<https://doi.org/10.1016/j.apgeog.2015.04.005>)
06. Poon, J., **Kedron, P.**, Bagchi-Sen, S. (2013) Do foreign subsidiaries innovate and perform better in a cluster? A spatial analysis of Japanese subsidiaries in the US. *Applied Geography* 44: 33-42. (<https://doi.org/10.1016/j.apgeog.2013.07.007>)
05. **Kedron, P.**, Bagchi-Sen, S. (2012) Foreign direct investment in Europe by multinational pharmaceutical companies from India. *Journal of Economic Geography* 12: 809-839. (<https://doi.org/10.1093/jeg/lbr044>)
04. Rogerson, P., **Kedron, P.** (2012) Optimal weights for focused tests of clustering using the local Moran statistic. *Geographical Analysis* 44(2): 121-133. (<https://doi.org/10.1111/j.1538-4632.2012.00840.x>)
03. **Kedron, P.**, Bagchi-Sen, S. (2011) US Market Entry Processes of Emerging Multinationals: A Case of Indian Pharmaceuticals. *Applied Geography* 31(2):721-730. (<https://doi.org/10.1016/j.apgeog.2010.11.004>).

02. **Kedron, P.**, Bagchi-Sen, S. (2011) A study of the emerging renewable energy sector within Iowa. *Annals of the Association of American Geographers* 101(4): 882-896. (<https://doi.org/10.1080/00045608.2011.568875>)
01. Bagchi-Sen, S., **Kedron, P.**, Scully, J. (2011) A study of R&D, collaboration, and location preferences of health and agricultural biotech firm. *Environment and Planning C: Government and Policy* 29(3): 473-486. (<https://doi.org/10.1068/c08136>).

## Peer-Reviewed Book Chapters and Encyclopedia Entries

09. **Kedron, P.**, **Hoffman, T.**, **Bardin, S.** (2023) Reproducibility and Replicability in GeoAI. *Handbook of Geospatial Artificial Intelligence*. CRC Press/Taylor Francis. (<https://doi.org/10.1201/9781003308423-18>).
08. **Hoffman, T.**, **Kedron, P.** (2023). Spatial Autoregressive Models. *The Geographic Information Science & Technology Body of Knowledge* (4th Quarter 2022 Edition), John P. Wilson (ed.).
07. Frazier, A., **Ovando-Montejo, G.**, **Kedron, P.** (2023) The allometry of city configuration: Scaling evidence from a Latin American city system. *Urban Scaling*, Routledge.
06. **Kedron, P.**, Trgovac, A. (2021) Assessing connections and tradeoffs between geospatial data ethics, privacy, and the effectiveness of digital contact tracing technologies. *Human Dynamics in Smart Cities* Springer. Eds. Sui, D., Shaw, S-L. ([https://doi.org/10.1007/978-3-030-72808-3\\_7](https://doi.org/10.1007/978-3-030-72808-3_7))
05. **Kedron, P.** (2020) "Replicability and Reproducibility." In *International Encyclopedia of Geography: People the Earth, Environment, and Technology*. D. Richardson (Editor-in-Chief), N. Castree, M. Goodchild, A. Kobayashi, W. Liu, and D. Marston (general editors), Malden: Wiley Blackwell AAG.
04. **Kedron, P.**, Frazier, A.E. (2019) Gradient analysis and surface metrics for landscape ecology. pp. 497-517, In: *Current Trends in Landscape Research* L. Muller, Eulenstein, F. (eds) Springer. ([https://doi.org/10.1007/978-3-030-30069-2\\_22](https://doi.org/10.1007/978-3-030-30069-2_22)).
03. **Kedron, P.**, Bagchi-Sen, S. (2017) A study of technology and policy in liquid biofuel production in the United States. pp. 32-46, In: *Routledge Companion to Energy Geographies*. S. Bouzarovski, M. Pasqualetti, and V. Castan Broto (eds.), Farnham (UK): Routledge. (<https://doi.org/10.4324/9781315612928>).
02. Bagchi-Sen, S., **Kedron, P.** (2016) Governance of Biofuel Production in the United States. pp. 299-309, In: *Handbook of Politics and Technology*. U. Hilpert (ed.), London (UK): Routledge. (<https://doi.org/10.4324/9781315725239>).
01. **Kedron, P.**, Bagchi-Sen, S. (2015) Evolving innovation networks of Indian Pharmaceutical companies. pp. 189-207, In: *Innovation Spaces in Asia: Entrepreneurs, Multinational Enterprises and Policy*, M. McKelvey and S. Bagchi-Sen (eds.). Cheltenham (UK): Edward Elgar Publishers. (<https://doi.org/10.4337/9781783475681.00017>)

## Peer-Reviewed Conference Proceedings

08. Holler, J., **Kedron, P.** (2023). Decentralized infrastructure for reproducible and replicable geographical science. I-GUIDE Forum 2023 (<https://docs.lib.purdue.edu/iguide/2023/presentations/10>).
07. **Bardin, S.**, **Kedron, P.** (2022). A geographic perspective on place-based policies. Association of Public Policy Analysis and Management, Fall Conference.
06. **Hoffman, T.**, **Kedron, P.** (2022). Operationalizing spatial causal inference. *Spatial Data Science Symposium 2022*, eScholarship University of California. (<https://doi.org/10.25436/E2D30K>)
05. Holler, J., **Kedron, P.** (2022) Mainstreaming metadata into research workflows to advance reproducibility and open geographic information science. *The International Archives of the Photogrammetry, Remote Sensing*

and *Spatial Information Sciences*, 48(4): W1-202. Free and Open Source Software for Geospatial (FOSS4G) 2022 – Academic Track, 22–28 August 2022, Florence, Italy. (<https://doi.org/10.5194/isprs-archives-XLVIII-4-W1-2022-201-2022>).

04. **Kedron, P., Bardin, S.** (2021) A vision of veridical spatial data science. *Spatial Data Science Symposium 2021*, eScholarship University of California. (<https://doi.org/10.25436/E20016>)
03. **Kedron, P.** (2019) Can Reproducible and replicable research facilitate causal explanation in Geography? In *Accepted Short Papers and Posters from the 22nd AGILE Conference on Geo-information Science*. Edited by Kyriakidis, P., Hadjimitsis, D., Skarlatos, D., Mansourian, A., Cyprus University of Technology 17-20 June 2019, Limassol, Cyprus. ISBN 978-90-816960-9-8, Stichting AGILE.
02. **Kedron, P., Frazier, A.E., Greene, C., Mitchell, D.** (2016) Curriculum design for upper- and advanced-level GIS classes: Are new skills being taught and integrated? *GI Forum 2016*(1): 324-335.
01. Frazier, A.E., and **Kedron, P.** (2016) Impacts of compositional and configurational data loss on downscaling accuracy. *Proceedings of Spatial Accuracy 2016*: 5-8.

## Non-Refereed Publications - White Papers

05. **Kedron, P., Nelson, T., Dodge, S., Frazier, A., Murray, A., Goodchild, M., Lutsky, S., Kozaki, E.** (2024) *Spatial Data Science in and Age of Scientific Disruption*. Workshop report of the Center for Spatial Studies and Data Science University of California Santa Barbara.
04. Goodchild, M., Fortheringham, **Kedron, P., Li, W., S., Frazier, Connor, D., Tong, D.** (2013) *Digital Twins in Geospatial Research*. Workshop report of the Spatial Analysis Research Center (SPARC) at Arizona State University. (Available at <https://sgsup.asu.edu/sites/default/files/2023-04/SPARC%20Digital%20Twins%20Workshop%20Final%20Report.pdf>)
03. Goodchild, M.F., Appelbaum R., Crampton, J., Herbert, W.A., Janowicz, K., Kwan, M.-P., Michael, K., Alvarez León, L. F., Bennett, M., Cole, D.G., Currier, K., Fast, V., Hirsch, J., Kattenbeck, M., Kedron, P., Kerski, J., Liu, Z., Nelson, T., Shulruff, T., Sieber, R.E., Wertman, J., Wilmott, C., Zhao, B., Zhu, R., Nilupaer, J., Dony, C.C., Langham, G. (2022). A White Paper on Locational Information and the Public Interest. American Association of Geographers. <https://doi.org/10.14433/2017.0113> (Available at <https://www.aag.org/program/locational-information-and-the-public-interest/>)
02. Nelson, T., **Kedron, P., Goodchild, M., Fortheringham, S., Frazier, A., Li, W., Gao, S., Hu, Y., Tsou, M., Yuan, M. Zhao, B.** (2020) *Digital Contact Tracing and Surveillance: Geospatial Opportunities, Limitations, and Research Directions*. White paper of the School of Geographical Sciences and Urban Planning at Arizona State University. (Available at <https://sgsup.asu.edu/contact-tracing>).
01. Goodchild, M., Fortheringham, **Kedron, P., Li, W., S., Frazier, Connor, D., Tong, D., Myint, S.** (2019) *Reproducibility and Replicability in Geospatial Research*. Workshop report of the Spatial Analysis Research Center (SPARC) at Arizona State University. (Available at [https://sgsup.asu.edu/sites/default/files/2021-10/manley\\_scales3\\_0.pdf](https://sgsup.asu.edu/sites/default/files/2021-10/manley_scales3_0.pdf)).

## Non-Refereed Publications – Replications and Reproductions

11. **Roubin, S., Holler, J., Kedron, P.** (2024) Spatio-Temporal Accessibility of Pharmacy Care in Vermont, USA. (<https://doi.org/10.17605/OSF.IO/BCQ9S>)
10. Holler, J., **Smith, L., Kedron, P.** (2024). Reproduction and Replication of Spielman et al.'s 2020 Evaluation of the Social Vulnerability Index. (<https://doi.org/10.17605/OSF.IO/DZPE9>)

09. **Kedron, P.**, Holler, J., Bardin, S. (2022). Pre-Analysis Plan – A survey of researcher perceptions of replication in geography ([osf.io/c3uds](https://osf.io/c3uds))
08. Holler, J., **Kedron, P.**, An-Pham, D., Burt, D., Zhou, J. (2022) Reproduction of Chakraborty 2021 Distribution of COVID-19 and intra-categorical analysis of people with disabilities. (<https://doi.org/10.17605/OSF.IO/S5MTQ>)
07. Holler, J., Udoh, K., An-Pham, D., **Kedron, P.** (2022). Reproduction and Reanalysis of Malcomb et al 2014 Climate Vulnerability Model of Malawi. (<https://doi.org/10.17605/OSF.IO/MGSR4>).
06. Holler, J., Burt, D., Udoh, K., **Kedron, P.** (2022). Reproduction and Reanalysis of Kang et al 2020 Spatial Accessibility of COVID-19 Health Care Resources. (<https://doi.org/10.17605/OSF.IO/N92V3>).
05. **Kedron, P.**, Bardin, S., Holler, J., Gilman, L., Grady, B., Seeley, M., Wang, X., Yang, W. (2022). Reproduction of Mollalo et al 2020. (<https://doi.org/10.17605/OSF.IO/E43KQ>).
04. **Kedron, P.**, Bardin, S., Holler, J., Gilman, L., Grady, B., Seeley, M., Wang, X., Yang, W. (2022). Reproduction of Vijayan et al 2020. (<https://doi.org/10.17605/OSF.IO/MY5DZ>).
03. **Kedron, P.**, Bardin, S., Holler, J., Gilman, L., Grady, B., Seeley, M., Wang, X., Yang, W. (2022). Reproduction of Saffary et al 2020. (<https://doi.org/10.17605/OSF.IO/QFKG4>).
02. **Kedron, P.**, Holler, J., Bardin, S. (2022). Pre-Analysis Plan – A Survey of Reproducibility in Geographic Research. (<https://doi.org/10.17605/OSF.IO/6ZJCP>).
01. **Kedron, P.**, Hilgendorf, Z. (2020) Pre-Analysis Plan - Assessing publication bias in geographical science journals. Reproducibility, Replicability, and Open Science Practices in the Geographical Sciences. (Available at <http://osf.io/c5a2r>) .

## INVITED SPEAKING

### Invited Talks

- 2024 *The Need to Catalog Spatial and Temporal Non-Sampling Errors in Computational Social Science*  
The Symposium on Spatiotemporal Data Science: GeoAI for Social Sciences. Virginia Tech Research Center, Arlington, VA, July 23-24, 2024
- R&R Frontiers in Spatial Convergence Research*  
AALAC Workshop on Reproducibility and Replicability in the Liberal Arts (Keynote), Middlebury College, Middlebury, VT, July 14-17, 2024
- Spatial Stability in Veridical Data Science*  
Inaugural Berkeley-Stanford Workshop on Veridical Data Science, UC Berkeley – Berkeley, CA, May 31, 2024
- Collecting 'Enriched Lines of Evidence' to Build Reliable GeoAI.*  
Evaluating the Science of Geospatial AI Workshop, Harvard University, Cambridge, MA, May 16-17, 2024.
- 2023 Harvard Spatiotemporal Innovation Symposium  
Center for Geographic Analysis, Harvard University – Cambridge, July 15-17, 2023
- 2022 Summit on Location Information and the Public Interest (Invited Expert)  
American Association of Geographers and Center for Spatial Studies – Santa Barbara, June 27-29, 2022
- Does GeoAI Promise an Ethical Future for Spatial Analysis* (Discussant)

AAG GeoEthics Project, ASU Spatial Analysis Research Center – Tempe; Feb 08, 2022

- 2021 *A Vision for Veridical Spatial Data Science.*  
Spatial Data Science Symposium; University of California – Santa Barbara; December 14, 2021.
- Using Reproductions and Replications to Assess the Credibility of Findings in Health Geography and GISci: Some Early Results from Reproductions of COVID-19 Research.*  
28<sup>th</sup> International Conference on Geoinformatics (Virtual Presentation); October 31, 2021
- Working with Students to Reproduce COVID-19 Research to Establish the Credibility of Findings and Accelerate Policymaker Adoption.*  
The Geospatial Software Institute - Geospatial Fellows Webinar Series (Virtual Presentation); University of Illinois – Urbana-Champaign; August 23, 2021.
- 2019 *Which Priorities will Help Convert the Synthesis of GIScience to Convergent GIScience?*  
Convergent GIScience Workshop, University of Arkansas; October 28, 2019
- R&R in Geospatial Research and Education.*  
CyberGIS and Geospatial Data Science Summer School, University of Illinois – Urbana-Champaign; July 8, 2019.
- 2018 *Do Spatial Analytical Methods Measure the Sustainability of Development?*  
Regional Studies Association Socio-Spatial Summer School, University of Cagliari; September 4, 2018
- The Firm-Location Nexus: Examining the Inventive Footprint and Technological Evolution of Nortel.* European Patent Office Workshop, University College Dublin; Ireland; June 13, 2018:
- Building Oklahoma’s Ability to Explore and Understand the Social and Ecological Impact of Management and Policy Decisions.*  
Oklahoma NSF EPSCoR 2018 Annual Conference; Oklahoma City, Oklahoma: April 24, 2018.
- 2017 *Revamping GIS Education: How OSU Geography is Training Students to Enter the GIS Workforce.*  
OKSCAUG ArcGIS User Group Meeting; Stillwater, OK: December 06, 2017.
- Evolutionary Economic Geography – Past, Present, and Future.*  
Spatial Dynamics Lab – University College Dublin, Ireland.
- 2016 *Proximity in Networks of Renewable Energy Industries.*  
Middlebury College; Middlebury, Vermont: October 07, 2016.
- Understanding Innovation, Firm Performance, and Industrial Development in Renewable Energy.*  
University of Memphis; Memphis, Tennessee: September 16, 2016.
- 2015 *Innovation as a Driver of Social, Economic, and Ecological Adaptation in Energy and Agriculture.* Oklahoma State University; Stillwater, Oklahoma: December 07, 2015.
- From individual to regional networks: Patterns and pathways in Biofuel innovation.*  
NSF iBegin Conference, Philadelphia, Pennsylvania: November 13, 2015.
- The Effect of Local and Regional Conditions on Renewable Energy Production: A Study of Bioenergy.*  
Michigan State University; Lansing, Michigan: February 24, 2015.
- 2014 *Understanding Innovation and Industrial Development in Bioenergy.*  
Oklahoma State University; Stillwater, Oklahoma: August 22, 2014.
- Innovative Methods for Teaching GIS and Cartography.*  
Association of American Geographers Annual Meeting 2014, Tampa Bay, Florida: April 10, 2014.

- 2013 *An Analysis of Policy, Innovation, and Production in U.S. Renewable Energy: Evolution of the Biofuel Industry.* University of South Carolina; Columbia, South Carolina: December 2, 2013.
- Inferential complexities in spatial, temporal, and etiological dynamics of disease exposure.* Vespucci Institute Synthesizing Population, Health, and Place, University of Southern California: April, 2013.
- Evolving Global Innovation Strategies of Indian Pharmaceutical Companies.* Business Strategy and Innovation Spaces in China and India Workshop, Goteborg University; Goteborg, Sweden: February 20-22, 2013.
- 2012 *The role of Industrial Policy and Environmental Governance in the Spatio-temporal Evolution of Regional Energy Systems.* Northern Illinois University; Dekalb, Illinois: February 20, 2012.
- A Simple Adjustment for Testing Local Statistics Across Many Scales.* Ryerson University; Toronto, Canada: February 16, 2012.
- 2010 *Growth and Expansion Tools.* UB Office of Economic Engagement & Buffalo Niagara Partnership, State University of New York at Buffalo; Buffalo, New York: November 9 2010.

## Campus Talks

- 2019 *How the Geographical Sciences can contribute to the Reproducibility and Replicability of Research.* ASU Spatial Analysis Research Center (SPARC) Anniversary Celebration, Arizona State University; February 27, 2019.
- Reproducibility and Replicability What changes and what do the spatial sciences offer.* Reproducibility and Replicability in Geospatial Research: A SPARC Workshop; Arizona State University; February, 11-12, 2019.

## TEACHING AND ADVISEMENT

### University Courses Taught

**UCSB** – University of California Santa Barbara, **ASU** – Arizona State University, **OSU** – Oklahoma State University, **RYU** – Ryerson University, **UB** – State University of New York at Buffalo, **UBSIM** – Singapore Institute of Management (University at Buffalo Geography Program), **NCCC** – Niagara County Community College

Spatial Analysis, GIScience, and Quantitative Methods

11. Analytical Methods III (GEOG 210C). **UCSB**, Graduate, In-person
10. Current Issues and Debates in Geographic Information Science (GIS 520). **ASU**, Graduate, In-person
09. Spatial Statistics for Geography and Planning (GIS 471/591). **ASU**, Graduate/Undergraduate, All modalities
08. GIS: Socio-Economic Applications (GEOG 4253). **OSU**, Graduate/Undergraduate, In-person
07. Analytical Methods and Spatial Data (SA 8903). **RYU**, Graduate, In-person
06. Land Geographic Information Systems (SA 8923). **RYU**, Graduate, In-person
05. GIS Design and Applications (GEOG 176C). **UCSB**, Undergraduate, In-person
04. Geographic Information Science I (GIS 205). **ASU**, Undergraduate, Online

- 03. Digital Tools for Environmental Exploration (GEOG 2344). **OSU**, Undergraduate, In-person
- 02. Multivariate Statistics in Geography (GEO 561). **RYU**, Undergraduate, In-person
- 01. Inferential Statistics in Geography (GEO 361). **RYU**, Undergraduate, In-person

#### Urban and Economic Geography

- 08. Economic Geography (GEOG 3163). **OSU**, Undergraduate, In-person.
- 07. Urbanization and Regional Development (GEO 551). **RYU**, Undergraduate, In-person.
- 06. Geography of the Global Economy (GEO 205). **RYU**, Undergraduate, In-person.
- 05. Geography of the Global Village (GEO 108). **RYU**, Undergraduate, In-person.
- 04. Dynamics of International Business (GEO 334). **UBSIM**, Undergraduate, In-person.
- 03. Bases of World Commerce (GEO 333). **UBSIM**, Undergraduate, In-person.
- 02. International Environment and Commercial Problems (GEO 330). **UBSIM**, Undergraduate, In-person.
- 01. Industrial and Business Geography (GEO 425). **UB**, Undergraduate, In-person.

#### Topical Courses and Economics

- 04. Global Sustainability (GEOG 2002). **OSU**, Undergraduate, In-person.
- 03. Geography of Europe (GEOG 3723). **OSU**, Undergraduate, In-person.
- 02. Macroeconomics (ECO 101). **NCCC**, Undergraduate, In-person.
- 01. Microeconomics (ECO 102). **NCCC** Undergraduate, In-person.

#### Graduate Research Courses

- 04. Geography Colloquium (GPH 591). **ASU**, Graduate, Hybrid.
- 03. Topics in Geography – Reproducibility and Replicability (GIS 692). **ASU**, Graduate, In-person
- 02. Topics in Geography – Pedagogical Approaches to Spatial Analysis (GIS 692). **ASU**, Graduate, In-person.
- 01. Readings in Geography – Spatial Regression Analysis (GEOG 6930). **OSU**, Graduate, In-person.

### Educational Workshops and Summer Schools

Note: graduate student and postdoctoral advisee workshop co-organizers.

- 2023    Reproducible Research Practices for Spatial Data Science. UCSB Workshop, Santa Barbara, CA: December 07, 2023. Workshop Organizer with Holler, J.  
  
           Reproducible Research Practices for Spatial Data Science. 4<sup>th</sup> Spatial Data Science Symposium, Virtual September 05, 2023. Workshop Organizer with Holler, J.
- 2022    Teaching Critical, Open, and Reproducible GIScience. UCGIS Symposium, Syracuse, NY: June 6, 2022. Workshop Organizer with Holler, J.
- 2020    Virtual Workshop Organizer with Sachdeva, M. “Multiscale Geographically Weighted Regression.” UCGIS Symposium. Virtual: May, 28, 2020. (*Supervised graduate student and co-developed all materials, delivered workshop, 25 participants*).

2019 Invited Mentor. "Reproducible Problem Solving with CyberGIS and Geospatial Data Science." Data Science Summer School, CyberGIS Center, University of Illinois – Urbana-Champaign; Urbana, Illinois: July 7-9, 2019. (*Mentored graduate students and early career faculty, assisted in student project development*).

2018 Invited Mentor. Regional Studies Association Socio-Spatial Summer School, University of Cagliari; Cagliari, Italy: September 3-7, 2018. (*Mentored graduate students and postdoctoral fellows, led discussions sessions, developed and delivered early career placement session*).

Series organizer with Clay Barrett. "Python for Data Manipulation and Visualization" Oklahoma State University workshop series. Stillwater, Oklahoma: February, 2018. (*Co-developed all materials, delivered workshop series, 3 session of 10-15 participants*).

## Advising

### Postdoctoral Researchers

- Xuebin Yang (2017-2018). Oklahoma State University, Adapting Socio-Ecological Systems to Increasing Climate Variability. (*Primary advisor, analyzed potential woody plant coverage across precipitation gradient in Oklahoma and Texas*).

### Doctoral Students - Advisor

- Sarah Bardin (In Progress) Ph.D. Geography; Arizona State University.
- Wenxin Yang (In Progress) Ph.D. Geography; Arizona State University. (*Co-Advisor*).

### Doctoral Students – Committee Member

- Lance Watkins (In Progress) Ph.D. Geography; Arizona State University.
- Yuanyuan Tian (In Progress) Ph.D. Geography; Arizona State University.
- Mehak Sachdeva (2022). Ph.D. Geographic Information Science; Arizona State University. Dissertation: "Advances in Local Modeling in a Regression Framework."
- Lian Feng (2022). Ph.D. Geography, University of Memphis. Dissertation: "Predicting Tree Species Richness in the Continental United States: Highlights from Machine Learning and Open Data."
- Avipsa Roy (2021). Ph.D. Geography; Arizona State University. Dissertation: "Developing Data-Driven Methods for Movement Pattern Analysis using Geographic Context."
- Gustavo Ovando-Montejo (2019). Ph.D. Geography, Oklahoma State University. Dissertation: "Landscape examination of urban configuration through the application of spatial metrics."

### Doctoral Students - Advisor

- Kamal (2023). Ph.D. Geography, University of Melbourne. Dissertation: "A Spatial Causal Inference Framework" (*External Dissertation Examiner*).
- Jason Knight (2013). Ph.D. Geography, State University of New York at Buffalo. Dissertation: "Shrinking City, Shrinking Region: A Socio-Spatial Analysis of Demolitions in Buffalo and the Emergence of Regional Shrinkage in Erie County, New York." (*External Dissertation Examiner*).
- Chang-Ho Lee (2013). Ph.D. Geography, State University of New York at Buffalo. Dissertation: "Collaborative Trends in Biomedical Sciences: Outcomes, Innovation, and Academic Entrepreneurship." (*External Dissertation Examiner*).

## Masters Students - Advisor

- Tyler Hoffman (In Progress) Ph.D. Geography; Arizona State University.
- Aleksander Berg (2022). M.A. Geography; Arizona State University. Thesis: "A high-resolution recalculation of the wildland urban interface reveals over \$1 trillion of California's residential structures are at risk to wildfire" (*Co-Advisor with Dr. Dylan Connor*).
- Lindsay King (2019). M.A. Geography; Oklahoma State University. Thesis: "Social vulnerability to Tornadoes in Oklahoma."
- Jennifer Mason (2016). M.A. Spatial Analysis; Ryerson University. Thesis: "The development of renewable energy innovations across geographies, industries, and inventor networks" (*Chair*).
- Kirk Sutor (2015). M.A. Spatial Analysis; Ryerson University. Thesis: "Spatial monitoring of property transfer pricing in Toronto, ON".
- Michael Morrish (2015). M.A. Spatial Analysis; Ryerson University. Thesis: "A spatial statistical analysis of income and health in Toronto."
- Tomasz Migdal (2014). M.A. Spatial Analysis; Ryerson University. Thesis: "Modeling urban growth with existing urban built-up area within the Toronto census metropolitan area using ordinary least squares and geographically weighted regression."
- Rajiv Lalla (2014). M.A. Spatial Analysis; Ryerson University. Thesis: "A spatio-temporal analysis of adult offenders in community-based corrections in Ontario from 2004 to 2013 using location quotient and shift-share analysis"
- Tegan Buckingham (2013). M.A. Spatial Analysis; Ryerson University. Thesis: "Using cluster statistics to determine the relationships between disadvantaged populations and polluting facilities in Toronto, Canada."
- Kevin Mackay (2013). M.A. Spatial Analysis; Ryerson University. Thesis: "The effect of occupation on the spatial distribution of HIV and AIDS in Thailand using AMOEBA cluster analysis."
- Adam McKay (2013). M.A. Spatial Analysis; Ryerson University. Thesis: "The geography of health in Thailand: An exploration into the relationship between non-government organizations and HIV/AIDS."

## Masters Students – Committee Member

- Austin Boardman (2018). M.S. Geography; Oklahoma State University.
- Brianna Hutchinson (2016). ). M.A. Spatial Analysis; Ryerson University. Thesis: "Spatial statistical analysis of regional patent networks."
- Heather Hart (2014). M.A. Spatial Analysis; Ryerson University. Thesis: "Maps as evidence in health care service improvement and monitoring."
- Jarrett Moore (2014). M.A. Spatial Analysis; Ryerson University. Thesis: "Offender journey to crime and hotspot environmental characteristics in Durham region."
- William Davis (2014). M.A. Spatial Analysis; Ryerson University. Thesis: "An interactive and dynamic mobile web application for digital tourism: A geospatial complement to the City of Toronto's discovery walk program."
- Sandra Albanese (2013). M.A. Spatial Analysis; Ryerson University. Thesis: "An analysis of spatial relationships between electrical fires in the greater Toronto area and socioeconomic characteristics "

- Wei Hu (2013). M.A. Spatial Analysis; Ryerson University. Thesis: "Neighborhood environment, individual characteristics, and immigrant health in Canada's metropolitan areas: A multi-level modeling Approach"

## Outreach Education

- Organizer with Fazier, A.E. "Finding and Securing Tenure-Track Positions" (3 sessions), Oklahoma State University; Stillwater, Oklahoma: March 2018.
- Organizer with Fazier, A.E. "The Stillwater Puzzle" (Half-day Session), STEM Teaching Day, Will Rogers Elementary School; Stillwater Oklahoma: October 2017.
- Organizer with Fazier, A.E. "Remote Sensing and Air Photo Interpretation" (2 sessions), National Lab Day, Oklahoma State University; Stillwater Oklahoma: May 2017.
- Participant, "Cimarron River Watershed Stakeholders Meeting" Oklahoma State University; Stillwater Oklahoma: March 2017.
- Organizer with Fazier, A.E. "Remote Sensing and Air Photo Interpretation" (2 sessions), National Lab Day, Oklahoma State University; Stillwater Oklahoma: May 2016.
- Organizer. "Graduate Student Skills Workshop" Department of Geography, State University of New York at Buffalo: 2010-2012.
- Organizer. "Graduate Student Research Symposium" Department of Geography, State University of New York at Buffalo: 2009-2012.

## CONFERENCE ACTIVITY

Note: postdoctoral advisee, graduate student, undergraduate student co-authors are indicated. Kedron is presenter unless otherwise noted.

### Conference & Workshop Organization

- 2024 **The Symposium on Spatiotemporal Data Science: GeoAI for Social Sciences.** Arlington, VA. July 23-24, 2024. Organizing Committee.
- 2023 **Spatial Data Science in an Age of Scientific Disruption.** UCSB Center for Spatial Studies and Data Science, University of California. Santa Barbara, CA December 8-9, 2023. Lead Organizer with Nelson, T., Murray, A., Frazier, A., Dodge, S.
- I-GUIDE Forum 2023.** New York, NY: October 4-6, 2023. Program Committee.
- Digital Twins.** ASU Spatial Analysis Research Center. Tempe, AZ: February, 27-28, 2023. Workshop Organizer with Goodchild M., Fotheringham, S., Li, W., Frazier, A.E., Connor, D., Tong, D.,
- 2022 **Global Conference on Economic Geography.** Dublin, Ireland, June 07-11, 2022. Conference Organizing Committee - Session Theme on Policy Geography.
- Does GeoAI Promise an Ethical Future for Spatial Analytics.** ASU Spatial Analysis Research Center. Vitrual Webinar: February, 8, 2022. Workshop Organizer with Goodchild M., Fotheringham, S., Li, W., Frazier, A.E., Connor, D., Tong, D.
- 2021 **Ethical Spatial Analytics.** ASU Spatial Analysis Research Center. Vitrual Webinar: February 2021. Workshop Organizer with Goodchild M., Fotheringham, S., Li, W., Frazier, A.E., Connor, D., Tong, D.

- 2020 **Scale and Spatial Analysis.** ASU Spatial Analysis Research Center. Tempe, AZ: February, 10-11, 2020. Workshop Organizer with Goodchild M., Fotheringham, S., Li, W., Frazier, A.E., Tong, D.,
- 2019 **Reproducibility and Replicability in Geospatial Research.** ASU Spatial Analysis Research Center. Tempe, AZ: February, 11-12, 2019. Workshop Organizer with Goodchild M., Fotheringham, S., Li, W., <https://sgsup.asu.edu/sparc/RRWorkshop>
- 2015 **Canadian Association of Geographers – Ontario Division Meeting.** Carleton University, Ottawa, Canada: October 23-24, 2015. Conference organizer with Forsythe, W. Burn, C. and many others,
- 2014 **Canadian Association of Geographers – Ontario Division Meeting.** York University, York, Canada: October 24-25, 2014. Conference organizer with Forsythe, W. Tufts, S. and many others,
- 2013 **Canadian Association of Geographers – Ontario Division Meeting.** University of Toledo; Toledo, Ohio: October 25-26, 2013. Conference organizer with Forsythe, W., Jollineau, M., Lawrence, P. and many others,

## Session Organization

- 2024 **GIScience Education in an Age of Scientific Disruption.** Panel Organizer. *UCGIS-CAGIS Symposium*, Columbus, OH June 3-6, 2024
- AAG 2024 Symposium on Geospatial Data Science for Sustainability.** Organizing Committee. *Annual Meeting of the American Association of Geographers*, Honolulu, April 16-20, 2024.
- Spatial Data Science in an Age of Scientific Disruption – A Research Agenda.** Panel Organizer. *Annual Meeting of the American Association of Geographers*, Honolulu, April 16-20, 2024.
- Spatial Data Science in an Age of Scientific Disruption – A Curriculum.** Panel Organizer. *Annual Meeting of the American Association of Geographers*, Honolulu, April 16-20, 2024.
- 2023 **Reproducing and Replicating Spatial Data Science.** Session Organizer with Holler, J. *Spatial Data Science Symposium 2023*. September 5-6, 2023.
- AAG 2023 Symposium on Harnessing the Geospatial Data Revolution for Sustainability Solutions.** Organizing Committee. *Annual Meeting of the American Association of Geographers*. March 23 - 27, 2023.
- Reproducibility and Replicability in the Human-Environment and Geographical Sciences.** Session Organizer. *Annual Meeting of the American Association of Geographers*. March 23 - 27, 2023.
- 2021 **AAG 2022 Symposium on Data-Intensive Geospatial Understandings in the Era of AI and CyberGIS.** Organizing Committee. *Annual Meeting of the American Association of Geographers*. February 25 – March 1, 2021.
- 2020 **Convergence, reproducibility, and replicability in GIScience: The road ahead and the road behind.** Symposium organizer with Holler, J., *University Consortium for Geographic Information Science*. Honolulu, Hawaii, May 28-June 1, 2020. (Virtual Meeting due to Covid-19)
- Breaking Theme – Geographers Respond to Covid-19 (8 Sessions),** Session series organizer with AAG staff and many others, *Annual Meeting of the American Association of Geographers*. April, 06-10, 2020. (Virtual Meeting due to Covid-19)
- Symposium on Frontiers in CyberGIS and Geospatial Data Science (8 Sessions),** Organizing Committee. *Annual Meeting of the American Association of Geographers*. April, 06-10, 2020. (Virtual Meeting due to Covid-19)

- Economic Geography – Uneven Development, Structural Change, and Policy Intervention.** (5 sessions), Session series organizer with Kogler, D., Clark, J., *Annual Meeting of the American Association of Geographers*. Denver, Colorado: April, 06-10, 2020. (Cancelled due to Covid-19)
- 2019 **Economic Geography – Evolution, Renewal, Development, and Policy** (11 sessions), Session series organizer with Kogler, D., Clark, J., *Annual Meeting of the American Association of Geographers*. Washington, D.C.: April, 03-07, 2020.
- 2018 **Economic Geography – Multi-Scalar & Multi-Dimensional Aspects of Economic Development** (10 sessions), Session series organizer with Kogler, D., Clark, J., Rocchetta, S., Boschma, R., Rigby, D., *Annual Meeting of the American Association of Geographers*. New Orleans, Louisiana: April 11, 2018.
- 2017 **Economic Geography** (10 sessions), Session series organizer with Kogler, D., Clark, J., Kemeny, T., Rigby, D., *American Association of Geographers: Annual Meeting*. Boston, Massachusetts: April 7, 2017.
- Landscape Ecology and Geography** (03 sessions), Session series organizer with Frazier, A.E., Vadjunec, J., *American Association of Geographers: Annual Meeting*. Boston, Massachusetts: April 8, 2017.
- Patterns, Processes, and People** (02 sessions), Session series organizer with Frazier, A.E., Kwon, Y., *Annual Meeting of the US International Association of Landscape Ecology*. Chicago, Illinois: April 11, 2017.
- 2015 **Biofuels, Bioenergy, and the Emerging Bioeconomy** Session series organizer with Birch, K., Calvert, K., Baka, J., Bagchi-Sen, S., *American Association of Geographers: Annual Meeting*. Chicago, Illinois: April 21-25, 2015.
- 2014 **Urban Inequalities in Canadian and US Cities** (02 sessions), Session series organizer with Ghosh, S, *Annual Meeting of the Canadian Association of Geographers*. St Catherines, Canada: May 26-30, 2014.
- 2011 **Applied Spatial Analysis** Session organizer, *The Association of American Geographers Annual Meeting 2011*, Seattle, Washington: April 13, 2011.
- 2010 **Legal Geographies** (02 sessions) Session series organizer with Holler, J., *Association of American Geographers Annual Meeting 2010*, Washington, D.C.: April 14-18, 2010.

### Invited Panelist

- 2024 *Ethics in Geospatial AI and Data Science*. American Association of Geographers Annual Meeting – Honolulu, April 17, 2024
- 2023 *Ethics in Geospatial AI and Data Science*. American Association of Geographers Annual Meeting – Denver, March 23-27, 2023
- 2020 *Privacy and Location Data in Contact Tracing Systems*. Digital Contact Tracing and Surveillance; School of Geographical Sciences and Urban Planning; Arizona State University, April 24, 2020.

### Conference Presentations

- 2024 “Does protected area connectivity moderate the efficacy of protection on tropical biodiversity? Evidence from a replication of Brodie et al. 2023” **Kedron, P., Song, L., Yang, W.,** Frazier, A. *Annual Meeting of the American Association of Geographers*, Honolulu, April 16-20, 2024.
- “Moderating policy impacts: A case study of the Teen Pregnancy Prevention Evidence Review” **Bardin, S., Kedron, P.** (Bardin Presenter). *Annual Meeting of the American Association of Geographers*, Honolulu, April 16-20, 2024.

"America the beautiful: Meeting '30x30' conservation goals through connected protected areas." Frazier, A., **Kedron, P.**, Yang, W., Quan, H. (Frazier Presenter). *Annual Meeting of the American Association of Geographers*, Honolulu, April 16-20, 2024.

"Monitoring aboveground and belowground biomass carbon density dynamics in the Dangermond Preserve" Yang, W., Frazier, A., Kedron, P. (Yang Presenter). *Annual Meeting of the American Association of Geographers*, Honolulu, April 16-20, 2024.

"Reproductions and Replications as Project Based Learning in Geographic Information Science" **Kedron, P.**, Trgovac, A., Holler, J. (Trgovac Presenter). *Annual Meeting of the American Association of Geographers*, Honolulu, April 16-20, 2024.

"Bike Network Connectivity and Safety in Two Midsize California Cities" Chen, J., Nelson, T., **Kedron, P.** (Chen Presenter). *Annual Meeting of the American Association of Geographers*, Honolulu, April 16-20, 2024.

2023 "Decentralized Infrastructure for Reproducible and Replicable Geographical Science" Holler, J., **Kedron, P.** *I-GUIDE Forum*, New York, NY, October 6, 2023.

"Insights from two surveys of the reproducibility and replicability of geographic research" **Kedron, P.**, Holler, J., Bardin, S. *Annual Meeting of the American Association of Geographers*, Denver, March 23-27, 2023.

"A framework and infrastructure for reproducible research and pedagogy in HEGS " Holler, J., **Kedron, P.** (Holler Presenter) *Annual Meeting of the American Association of Geographers*, Denver, March 23-27, 2023.

"Moving beyond computation: Reproducing geographical analyses of COVID-19 to assess and improve the validity of research " **Kedron, P.**, Bardin, S., Holler, J., Cliff, S., Fuller, K., Gilman, J., Grady, B., Seely, M., Van Zandergen, A., Yang, W., Yang, X. (Bardin Presenter) *Annual Meeting of the American Association of Geographers*, Denver, March 23-27, 2023.

"Controlling for spatial confounding and spatial interference in causal inference: Model selection advice from a computational experiment" Hoffman, T., **Kedron, P.** (Hoffman Presenter) *Annual Meeting of the American Association of Geographers*, Denver, March 23-27, 2023.

"Who gets left behind by left behind places?" Connor, D., Berg, A., Kemeny, T., **Kedron, P.** (Connor Presenter) *Annual Meeting of the American Association of Geographers*, Denver, March 23-27, 2023.

"Uncertainties in the geographic representation of landscape connectivity metrics for area-based conservation" Yang, W., Frazier, A., **Kedron, P.** (Yang Presenter) *Annual Meeting of the American Association of Geographers*, Denver, March 23-27, 2023.

"A high-resolution recalculation of the wildland urban interface reveals over \$1 trillion of California's residential structures are at risk for wildfire." Berg, A., Connor, D., **Kedron, P.** (Berg Presenter) *Annual Meeting of the American Association of Geographers*, Denver, March 23-27, 2023

2022 "A geographic perspective on place-based policies" Bardin, S., **Kedron, P.** (Co-Presenters). *Fall Conferences of the Association of Public Policy and Management*, November 16-19, 2022.

"Operationalizing spatial causal inference." Hoffman, T., **Kedron, P.** (Hoffman Presenter). *Spatial Data Science Symposium*; University of California – Santa Barbara; September 22, 2022.

- "The scale of evidence: Understanding the effects of geographic context on learning rates across the United States." **Bardin, S., Kedron, P.** (Bardin Presenter). *Global Conference on Economic Geography*. Dublin, Ireland, June 07-11, 2022
- "Bringing a Geographic Perspective to Policy" **Kedron, P., Bardin, S.** *Global Conference on Economic Geography*. Dublin, Ireland, June 07-11, 2022
- "Protected Area Connectivity and the Political Geography of Land Conservation Under the 30x30 Target" **Kedron, P.,** Frazier, A., **Yang, W., Quan, H.** *International Association of Landscape Ecology – North America Annual Meeting*. (Virtual Meeting due to Covid-19), March 19-23, 2022.
- "How connected is the protected area network in the United States?" Frazier, A., **Kedron, P., Yang, W., Quan, H.** (Frazier Presenter) *International Association of Landscape Ecology – North America Annual Meeting*. (Virtual Meeting due to Covid-19), March 19-23, 2022.
- "A Review of Connectivity Measures for Protected Areas (PAs)" **Yang, W.,** Frazier, A., **Kedron, P., Quan, H.** (Yang Presenter) *International Association of Landscape Ecology – North America Annual Meeting*. (Virtual Meeting due to Covid-19), March 19-23, 2022.
- 2021 "Reproducibility and Replicability in Geographic Research – Panel Session" **Kedron, P.,** Goodchild, M., Wang, S. (Bardin Organizer and Moderator). *Annual Meeting of the American Association of Geographers*. (Virtual Meeting due to Covid-19), February 25 – March 1, 2021.
- "A Bayesian Framework for Accumulating Geographic Knowledge Through Replication." **Kedron, P.,** Bardin, S. (Bardin Presenter). *Annual Meeting of the American Association of Geographers*. (Virtual Meeting due to Covid-19), February 25 – March 1, 2021.
- 2020 "Economic Geographers respond to COVID-19." **Kedron, P.** (Panel organizer and moderator). *Annual Meeting of the American Association of Geographers*. April, 06-10, 2020. (Virtual Meeting due to Covid-19; <https://aag.secure-abstracts.com/AAG%20Annual%20Meeting%202020/sessions-gallery/26847>).
- "Reproducibility and Replicability in Geographic Research" **Kedron, P.** (Panel organizer and moderator) *Annual Meeting of the American Association of Geographers*. April, 06-10, 2020. (Virtual Meeting due to Covid-19; <https://aag.secure-abstracts.com/AAG%20Annual%20Meeting%202020/sessions-gallery/25046>).
- 2019 "Land cover proportion and heterogeneity can help predict the accuracy of spatial pattern metrics for downscaling." **Kedron, P.,** Frazier, A.E. *International Association of Landscape Ecology – World Congress*. Milan, Italy: July 4, 2019.
- "Can Reproducible and replicable research facilitate causal explanation in Geography?" **Kedron, P.,** *Association of Geographic Information Laboratories in Europe (AGILE) Annual Meeting*. Limassol, Cyprus: June 18, 2019.
- "Replicable and reproducible research in economic geography and spatial science." **Kedron, P.,** *Annual Meeting of the Regional Studies Association*. Santiago de Compostela, Spain: June 6, 2019.
- "Replicable and reproducible research in economic geography and spatial science." **Kedron, P.,** *Annual Meeting of the Association of American Geographers*. Washington, D.C. April 3, 2019.
- 2018 "The production of renewable energy knowledge in geographic, social, and technological space." **Kedron, P., Zhao, Y.,** *Annual Meeting of the American Association of Geographers*; New Orleans, Louisiana: April 11, 2018.

"Validating and applying social vulnerability indices with crowd-sourced data during natural disasters: the case of Hurricane Harvey" Holler, J., **Kedron, P.** (Holler Presenter), *Annual Meeting of the American Association of Geographers*. New Orleans, Louisiana: April 11, 2018.

"Geography of R&D and patenting in US biofuels." Bagchi-Sen, S., **Kedron, P.**, Kogler, D. (Bagchi-Sen Presenter), *Annual Meeting of the American Association of Geographers*. New Orleans, Louisiana: April 11, 2018.

"The High Plains Aquifer as Hyperobject: re-imagining new water regimes in a transboundary area." Vadjunec, J., **Kedron, P.** (Vadjunec Presenter), *Annual Meeting of the American Association of Geographers*. New Orleans, Louisiana: April 11, 2018.

"Response of potential woody cover of savanna ecosystems to climate change." Yang, X., Crews, K., Frazier, A., **Kedron, P.** (Yang Presenter), *Annual Meeting of the American Association of Geographers*. New Orleans, Louisiana: April 11, 2018.

"Comparison of spatial patterns of urban sprawl across Mexican and US cities using spatial metrics." Ovando, G., Frazier, A.E., **Kedron, P.** (Ovando Presenter), *Annual Meeting of the American Association of Geographers*. New Orleans, Louisiana: April 11, 2018.

"Identifying urban development patterns by integrating 2D and 3D landscape models." Zhao, Y., **Kedron, P.**, Frazier, A.E. (Zhao Presenter), *Annual Meeting of the American Association of Geographers*. New Orleans, Louisiana: April 11, 2018.

"The relationship between wind turbines and the physical environment in Oklahoma" Yip\*, C., **Kedron, P.** (Yip Presenter - Poster), *Annual Meeting of the American Association of Geographers*. April 11, 2018. New Orleans, Louisiana: April 11, 2018.

"History and trends of describing and analyzing landscape patterns: Where are we now?" Frazier, A.E., **Kedron, P.** (Frazier Presenter), *International Association for Landscape Ecology: US Region Annual Meeting*. Chicago, Illinois: April 9, 2018.

"Scale-dependent metric value for a system of Mexican cities." Ovando, G., Frazier, A.E., **Kedron, P.** (Ovando Presenter), *International Association for Landscape Ecology: US Region Annual Meeting*. Chicago, Illinois: April 9, 2018.

"Developing 3D spatial pattern metrics to describe and analyze the urban environment." Zhao, Y., Frazier, A.E., **Kedron, P.** (Zhao Presenter), *International Association for Landscape Ecology: US Region Annual Meeting*. Chicago, Illinois: April 9, 2018.

"The production of renewable energy knowledge in geographic, social, and technological space." **Kedron, P.**, Zhao, Y. *Geography of Innovation Conference*. Barcelona, Spain: February 1, 2018.

"Anchors Away! The evolution of an ICT cluster during and after the sinking of its flagship company." Kogler, D., Spencer, G., **Kedron, P.** *Geography of Innovation Conference*. Barcelona, Spain: February 1, 2018.

2017 "Refinery location and organizational adjustments in the U.S. biofuel sector." Bagchi-Sen, S., **Kedron, P.** (Bagchi-Sen Presenter), *North American Regional Science Association*. Vancouver, Canada: November 9, 2017.

"The Oklahoma City ENVISION Model: Linking land management, water use, and human well-being." Koch, J., Boyer, T., McCarthy, H., **Kedron, P.**, Zhou, Y., Q., Ghimire, M., Cha, W., Zhao, Y. (Koch Presenter) *Oklahoma Governor's Water Conference*. Norman, Oklahoma: November 01, 2017.

"Assessing the validity of social vulnerability measures." **Kedron, P.**, Holler, J. *Southwestern American Association of Geographers: Annual Meeting*, Houston, Texas: October 27, 2017.

"Measuring Urban Patterns and Identifying their Relationships with Changes in Land Use Intensity." Zhao, Y., **Kedron, P.** (Zhao Presenter), *Southwestern American Association of Geographers: Annual Meeting*, Houston, Texas: October 27, 2017.

"The Impact of Scale on Relationships between Social Vulnerability and the Physical Environment." Yip\*, C., **Kedron, P.** (Yip Presenter) *Southwestern American Association of Geographers: Annual Meeting*, Houston, Texas: October 27, 2017.

"Exploring the Anatomy of Geographic Information Systems and Technology (GIS&T) Textbooks." Frazier, A.E., Wikle, T., and **Kedron, P.** *Southwestern American Association of Geographers: Annual Meeting*, Houston, Texas: October 25, 2017.

"The Oklahoma City ENVISION Model: Linking land management, water use, and human well-being." Koch, J., Boyer, T., McCarthy, H., **Kedron, P.**, Zhou, Y., Q., Ghimire, M., Cha, W., Zhao, Y. (Koch Presenter). *Southwestern American Association of Geographers: Annual Meeting*, Houston, Texas: October 25, 2017.

"Socio-ecological effects of recurrent and prolonged drought in the Southern Great Plains." Fagin, T., Vadjunec, J., Frazier, A., **Kedron, P.** (Vadjunec Presenter), *Natural Areas Conference* Fort Collins, Texas: October 12, 2017.

"Anchors away! The evolution of an ICT cluster after the sinking of its flagship company." Kogler, D., Spencer, G., and **Kedron, P.** (Kogler Presenter); *Evolution and Co-Evolution of Regional Innovation Processes Workshop*. Heilbronn, Germany: June 29, 2017.

"The role of proximities in the regional production of United States renewable energy knowledge." **Kedron, P.** *Regional Studies Association Annual Conference*, Dublin, Ireland: June 07, 2017.

"Ecological relevancy in land architecture." **Kedron, P.**, Frazier, A.E., Vadjunec, J., Fagin, F. *US-IALE Annual Meeting*, Chicago, Illinois: April 11, 2017.

"People, Patterns, and Processes: A framework for linking land architecture and landscape ecology." Frazier, A.E., **Kedron, P.**, Vadjunec, J., Fagin, T. (Co-presented with Frazier), *US-IALE Annual Meeting*, Chicago, Illinois: April 11, 2017.

"Forest fragmentation in the WUI: measuring land cover change through landscape and surface metrics." Frazier, A.E., **Kedron, P.**, Wang, J. (Frazier Presenter), *US-IALE Annual Meeting*, Chicago, Illinois: April 11, 2017.

"Does forest fragmentation explain differences in tree species diversity in Southeastern mixed forests?" Kwon, Y., Frazier, A., **Kedron, P.** (Kwon Presenter) *US-IALE Annual Meeting*, Chicago, Illinois: April 11, 2017.

"Analyzing Coupled Human and Natural Systems: The Example of Current and Future Water Consumption in Oklahoma City." Zhou, Q., Ghimire, M., Buerger, C., Boyer, T., McCarthy, H., **Kedron, P.**, Koch, J. (Koch Presenter) *US-IALE Annual Meeting*, Chicago, Illinois: April 11, 2017.

"The spatial diffusion of innovation in renewable energy: The effects of proximity of biofuel patenting." **Kedron, P.** *American Association of Geographers: Annual Meeting*: Boston, Massachusetts: April 7, 2017

- "Forest fragmentation in the WUI: a comparison of patch-based and gradient methods." Frazier, A., **Kedron, P.** (Frazier Presenter), *American Association of Geographers: Annual Meeting*: Boston, Massachusetts: April 6, 2017.
- "Land use patterns in areas of significant water-level decline within the high plains aquifer of Northwestern Oklahoma." Zhao, Y., **Kedron, P.** (Zhao Presenter), *Oklahoma EPSCoR Annual Conference*, Oklahoma City, Oklahoma: April 07, 2017.
- "Land and Water Governance in a Transboundary Region of the Central High Plains, USA." Vadjunec, J., Frazier, A.E., Fagin, T., Wanger, K., **Kedron, P.** (Co-presented with Vadjunec) *Kansas Natural Resources Conference*. Wichita, Kansas: January 26, 2017.
- 2016 "Understanding innovation, firm performance, and industrial development in renewable energy." **Kedron, P.**, *Southwestern American Association of Geographers: Annual Meeting*, Denton, Texas: October 21, 2016.
- "Curriculum design for upper- and advanced-level GIS classes: Are new skills being taught and integrated?" **Kedron, P.**, Frazier, A.E, Greene, C., Mitchell, D. *GIForum*, Salzburg, Austria: July 06, 2016.
- "Regions, firms, and individuals: Measuring innovation in evolutionary context." Kogler, D., **Kedron, P.**, and Bagchi-Sen, S. *Regional Studies Association: North American Meeting 2016*, Atlanta, Georgia: June 15, 2016.
- "Regions, firms, and individuals: Measuring innovation in evolutionary context." Kogler, D., **Kedron, P.**, Bagchi-Sen, S., *Association of American Geographers Annual Meeting 2016*, San Francisco, California: March 28, 2016.
- "Regions, firms, and individuals: Measuring innovation in evolutionary context." **Kedron, P.**, Kogler, D. *3<sup>rd</sup> Geography of Innovation Conference*, Toulouse, France: January 29, 2016.
- 2015 "From individual to regional networks: Patterns and pathways in Biofuel innovation." Kogler, D., **Kedron, P.**, Bagchi-Sen, S. *Fourth Global Conference on Economic Geography*, Oxford, England: August 21, 2015:
- "Interdependent learning modules to support student training in crossing disciplinary boundaries." **Kedron, P.** Greene, C. *Ryerson Faculty Conference*, Toronto, Canada: May 21, 2015..
- "The effect of local and regional conditions on renewable energy production: A study of bioenergy." **Kedron, P.** Bagchi-Sen, S., *Association of American Geographers Annual Meeting 2015*, Chicago, Illinois: April 21-25, 2015.
- "The evolution of knowledge spaces in biofuel innovation networks." Bagchi-Sen, S., **Kedron, P.**, Kogler, D. (Bagchi-Sen Presenter), *Association of American Geographers Annual Meeting 2015*, Chicago, Illinois: April 21-25, 2015.
- "An analysis of the influence of multi-scalar characteristics of city trees on microclimatic variation within Toronto's urban forest: A hierarchical approach." Greene, C., **Kedron, P.** (Greene Presenter) *Association of American Geographers Annual Meeting 2015*, Chicago, Illinois: April 21-25, 2015.
- 2014 "Government policy and renewable energy: A study of United States biofuel production." **Kedron, P.**, Bagchi-Sen, S. *61<sup>st</sup> Annual North American Meetings of the Regional Science Association International*. Washington, DC.: November 12-15, 2014.

“Government policy and renewable energy development in the United States and Canada: biofuel.” **Kedron, P.**, *Canadian Association of Geographers – Ontario Division Meeting*, York, Canada: October 24-25, 2014.

“Using location quotient and shift-share to understand the spatial profile of adult offenders in community-based corrections in Ontario.” Lalla, R., **Kedron, P.** *Canadian Association of Geographers – Ontario Division Meeting*, York, Canada: October 24-25, 2014.

“A study of within group inequality in the geographic distribution of HIV/AIDS in Thailand.” **Kedron, P.**, Lalla, R. (Lalla Presenter), *Canadian Association of Geographers Annual Meeting 2014*, St Catherines, Canada: May 26-30, 2014.

“Understanding the statistical bias of geographic scale in environmental inequality research.” Hart, H., and **Kedron, P.** (Hart Presenter). *Canadian Association of Geographers Annual Meeting 2014*, St Catherines, Canada: May 26-30, 2014.

“Environmental governance and shifts in Canadian biofuel production and innovation.” **Kedron, P.** *2014 Industry Studies Conference*, Portland, Oregon: May 28–30, 2014.

“Firm Value-Chain Reorganization, Regional Industrial Transformation, and the Geography of Innovation in the Canadian Biofuel Industry.” **Kedron, P.** *Association of American Geographers Annual Meeting 2014*, Tampa Bay, Florida: April 08-12, 2014.

“Understanding Emerging Biofuel R&D Networks Using Patent Data.” Bagchi-Sen, S., **Kedron, P.**, Kogler, D. (Bagchi-Sen Presenter) *Association of American Geographers Annual Meeting 2014*, Tampa Bay, Florida: April 08-12, 2014.

“The Impacts of Technological Translation and Regional Interests on the Formation of Global Value-Chains.” **Kedron, P.**, Bagchi-Sen, S., Shunder, T. (Shunder Presenter) *Association of American Geographers Annual Meeting 2014*, Tampa Bay, Florida: April 08-12, 2014.

“Do foreign subsidiaries innovate and perform better in a cluster: A spatial analysis of Japanese subsidiaries in the U.S.” Poon, J., **Kedron, P.**, Bagchi-Sen, S. (Poon Presenter). *Association of American Geographers Annual Meeting 2014*, Tampa Bay, Florida: April 08-12, 2014.

“Inferential complexities in spatial, temporal, and etiological dynamics of disease exposure.” Copeland\*, S., **Kedron, P.** (Copeland Presenter). *Association of American Geographers Annual Meeting 2014*, Tampa Bay, Florida: April 08-12, 2014.

“Utilizing bathymetry data for the geovisualization of contaminated sediment patterns in the Laurentian Great Lakes of North America.” Forsythe, K.W., McHenry, M., Atkinson, D., Aversa, J., Swales, S., **Kedron, P.**, Jakubek, D. (Forsythe Presenter), *Association of American Geographers Annual Meeting 2014*, Tampa Bay, Florida: April 08-12, 2014.

“Toxic air emissions and proximity to low-income areas in Scarborough, Toronto.” Hart, H., and **Kedron, P.** (Hart Presenter). *Spatial Knowledge and Information Conference 2014*, Banff, Canada: February 07-09, 2014.

“Path dependent innovation trajectories and environmental governance formation in the Canadian biofuels industry.” **Kedron, P.** *Geography of Innovation*, Utrecht, Netherlands: January 23-25, 2014.

2013 “A study of the emergence of the US biofuel industry: Implications for innovation, networks, and regional development.” Bagchi-Sen, S., **Kedron, P.** (Bagchi-Sen Presenter), *Regional Studies Association International Conference 2013*, Los Angeles, CA: December 16-18, 2013.

- "Environmental governance and the formation of the Canadian biofuel industry." **Kedron, P.** *CAGONT/ELDAAG Meeting*, Toledo, Ohio: October 25-26, 2013.
- "The evolution of networks in the U.S. Biofuel Industry." Bagchi-Sen, S., **Kedron, P.** (Bagchi-Sen Presenter) *CNRS et Universite de Nice Sophia Antipolis*. Nice, France: September 24, 2013.
- "Policy relevance in industry life cycles and regional evolution." **Kedron, P.**, Bagchi-Sen, S. *The Association of American Geographers Annual Meeting 2013*, Los Angeles, California: April 09-13, 2013.
- "Knowledge networks in the emerging energy industry." Bagchi-Sen, S., **Kedron, P.** (Bagchi-Sen Presenter). *Association of American Geographers Annual Meeting 2013*, Los Angeles, California: April 09-13, 2013.
- "Non-state actor involvement in global production networks and conflict mineral trade between Africa and China: Transforming social and environmental geographies. Poster presentation." **McKay, A., Kedron, P.** (McKay Presenter), *Association of American Geographers Annual Meeting 2013*, Los Angeles, California: April 09-13, 2013.
- 2012 "Spaces of innovation in emerging markets." Bagchi-Sen, S., **Kedron, P.** (Bagchi-Sen Presenter). *Second RIIIO International Conference of China and Indian Ocean Economies*. Yunnan, China: November 29-30, 2012.
- "Regional Advantage and Firm Strategy in a Renewable Energy Industry." **Kedron, P.**, Bagchi-Sen, S., *2012 Industry Studies Conference*, Pittsburg, Pennsylvania: June 1, 2012.
- "Researching Firms Using Primary and Secondary Data. Invited paper presentation." Bagchi-Sen, S., **Kedron, P.** (Bagchi-Sen Presenter) *Innovative Data Sources for Regional Economic Analysis Workshop*, Washington, D.C.: May 08-11, 2012.
- "The role of industrial policy and environmental governance in the spatio-temporal evolution of regional energy systems. Paper presentation." **Kedron, P.**, Bagchi-Sen, S. *The Association of American Geographers Annual Meeting 2012*, New York, New York: February 26, 2012.
- 2011 "Navigating European markets: A study of foreign direct investment by Indian pharmaceuticals." **Kedron, P.**, Bagchi-Sen S. *New York Conference on Asian Studies*, Buffalo, NY: Sept 16-17, 2011.
- "Optimal weights for the local Moran statistic." **Kedron, P.**, Rogerson, P., *The Association of American Geographers Annual Meeting 2011*, Seattle, Washington: April 13, 2011.
- "Optimal weights for the local Moran statistic." **Kedron, P.**, Rogerson, P. (Rogerson Presenter). *Western Regional Science Association*. Monterey, California: February 4, 2011.
- 2010 "Complex combinations: humans, non-humans, and law during the Alar scar of 1989." **Kedron, P.** *The Association of American Geographers Annual Meeting 2010*, Washington, D.C.: April 14-18, 2010.
- 2009 "Asian latecomers: Entry determinants of Indian Pharmaceuticals in the US." Bagchi-Sen, S. **Kedron, P.** (Bagchi-Sen Presenter). *Institute of Innovation and Entrepreneurship – Goteborg University*, Goteborg, Sweden: May 20, 2009.
- "Asian latecomers: Entry determinants of Indian Pharmaceuticals in the US. Paper presentation." **Kedron, P.**, Bagchi-Sen, S. *The Association of American Geographers Annual Meeting 2009*, Las Vegas, Nevada: March 23-28, 2009.

## PROFESSIONAL SERVICE ACTIVITIES

### Disciplinary

- Board Member, University Consortium for Geographic Information Science 2022-Present
- Co-organizer, Ethics Workshop Series, AAG 2020-2021
- Chair, Economic Geography Specialty Group, AAG 2018-2020
- Vice-Chair, Economic Geography Specialty Group, AAG 2016-2018
- Judge, EGSG Dissertation Award, AAG 2017-2018
- President, Canadian Association of Geographers – Ontario Division, CAG 2015-2016
- Councilor, Canadian Association of Geographers Executive Committee, CAG 2015-2016
- Board Member, Economic Geography Specialty Group, AAG 2014-2016
- Judge, Lutten Award, Energy and Environment Specialty Group, AAG 2014-2016
- Judge, Earl Cook Award, Energy and Environment Specialty Group, AAG 2014-2016
- Judge, Student Poster Competition, CAGONT 2014-2016
- Vice-President, CAGONT 2013-2015

### University and Departmental

- Graduate Committee (UC Santa Barbara) 2023-Present
- SGSUP Colloquium Series Coordinator (Arizona State University) 2022-2023
- SPARC Workshop Organizing Committee, (Arizona State University) 2018-2023
- SGSUP Associate Director of Graduate Studies (Arizona State University) 2021-2022
- SGSUP Executive Committee, SGSUP (Arizona State University) 2021-2022
- Faculty Lead, Development of Online Masters in Geography (Arizona State University) 2020-2022
- Ad Hoc PhD Core-Curriculum Committee (Arizona State University) 2021
- SGSUP Graduate Committee (Arizona State University) 2020-2021
- SGSUP Executive Committee, SGSUP (Arizona State University) 2019-2020
- Undergraduate Curriculum Committee, SGSUP (Arizona State) 2018-2020
- Ad Hoc Ph.D. Review Committee, SGSUP (Arizona State University) 2018-2019
- Colloquium Committee, SGSUP (Arizona State University) 2018-2019
- Director, *Environmental Studies Certificate Program*.  
College of Arts and Sciences, Oklahoma State University 2017-2018
- Curriculum Committee, Geography (Oklahoma State) 2017-2018
- Internal Review Committee, Geography (Oklahoma State) 2017-2018
- Center for Applications of Remote Sensing, Geography (Oklahoma State) 2017-2018
- Personnel Committee, Geography, (Oklahoma State) 2016-2018
- Member, Faculty Council, Ryerson University 2014-2016
- Master Program Executive Council, Geography (Ryerson) 2014-2016
- Curriculum Committee, Geography (Ryerson) 2014-2016
- CAG/AAG Liaison, Geography (Ryerson) 2014-2016
- OAGEE Conference Representative, Geography (Ryerson) 2014
- Ryerson Faculty Association Services Committee, Geography (Ryerson) 2013-2016
- Scholarly Research and Creative Activities Committee, Geography (Ryerson) 2012-2016
- Geography Field Studies Geography (Ryerson) 2012-2015
- SSHRC MSA/Doctoral Competition Applicants, Geography (Ryerson) 2012-2015
- Computing and IT Committee, Geography (Ryerson) 2012-2014
- Ontario University Fair Representative, Geography (Ryerson) 2012-2013
- OAGEE Conference Representative, Geography (Ryerson) 2012

## Editorial and Referee Activities

**Editorial:** Annals of the Association of American Geographers (Guest Editor), Cartography and Geographic Information Sciences (Guest Editor), Landscape Ecology (Guest Editor), Journal of Land Use Studies (Guest Editor), Technology Analysis and Strategic Management (Guest Editor), The Professional Geographer (Editorial Assistant 2008-2010)

**Funding Agencies:** NSF-PIPP Centers Program (Panelist) NSF-GSS-DDRI (Panelist), NSF-HEGS-DDRI (Panelist), NSF-INFEWS (Panelist), SSHRC

**Book Proposals:** MIT Press, Elsevier, Sage

**Geography:** Annals of the Association of American Geographers; Applied Geography; Cambridge Journal of Regions, Economy, and Society; Economic Geography; Cartography and Geographic Information Science; Environment and Planning A; Environment and Planning C; Environmental Innovation and Societal Transitions; Geographical Analysis; Geografiska Annaler Series: Human Geography; Geoforum; Industry and Innovation; The Industrial Geographer; Journal of Economic Geography; Journal of Geographical Systems, Journal of Land Use Studies; Landscape Ecology; Landscape and Urban Planning; Oxford Bibliographies; The Professional Geographer; Proceedings in Regional Science; Regional Studies

**Business:** Journal of International Business Studies

**General Sciences:** PNAS Nexus

## Professional Memberships

- Association of Public Policy Analysis and Management 2022-Present
- American Association of Geographers (AAG) 2009-Present
- Regional Studies Association (RSA) 2013-Present
- International Association of Landscape Ecologists – U.S. Chapter (US-IALE) 2016-Present

## RELATED PROFESSIONAL EXPERIENCE

### Professional Development

- ASU Knowledge Enterprise in DC Fellowship 2021
- Reproducible Research (RR@AGIILE) 2019
- OK EPSCoR Annual Retreat (Oklahoma EPSCoR) 2018
- OK EPSCoR Annual Retreat (Oklahoma EPSCoR) 2017
- OK EPSCoR Decision Support Tools Workshop. (Oklahoma EPSCoR) 2017
- Grant Writer's Workshop: Writing Winning Grants. Oklahoma State 2017
- Early Career Faculty Development Program, Oklahoma State 2016
- Workshop Course Preparing Online Instructors, (Oklahoma State) 2016
- OK EPSCoR Annual Retreat, (Oklahoma EPSCoR) 2016
- Vespucci Institute Synthesizing Population, Health, and Place (USC) 2013
- Leveraging Environmental Monitoring (United States Environmental Protection Agency) 2013
- Panel Data Methods for Public Policy Analysis (University of Toronto) 2013
- Moving Beyond Traditional Legal Geographies. (Baldy Center Law and Social Policy) 2012
- ArcObject Programming Workshop. (University at Buffalo) 2012
- Working Group on Law, Place, & Space. (Baldy Center for Law and Social Policy) 2011
- Growth and Expansion Tools (UB Office of Economic Engagement) 2010
- Summer Institute in Advanced Statistics and Methods. (University at Buffalo) 2010
- Grant Writer's Workshop: Writing Winning Grants. (University at Buffalo) 2010
- The hidden places of Law (Baldy Center for Law and Social Policy) 2010

## Related Experience

- 2010-2012      “Optimal spatial weights for assessing local spatial statistics.” National Science Foundation,  
BCS-1024134, PI Peter Rogerson
- 2005            *CAFTA Office of the Costa Rican Ministry of Foreign Trade*

## Awards and Recognition

- Sunshine Award (Arizona State University – SGSUP) 2019
- Professors who made a mark (Ryerson University) 2013
- Graduate student excellence in teaching award (University at Buffalo) 2012
- Presidential Fellowship (University at Buffalo) 2007-2012
- Special Fellowship (University at Buffalo) 2007-2012
- Special Fellowship, Honors College, (University at Buffalo) 2000-2004