

Alexander Severin Hohl (he/him/his)

Contact

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Professional Experience

2019 – Pres. **Assistant Professor**
University of Utah, Salt Lake City, UT, USA

2018 – 2019 **Assistant Professor of Data Science**
Utica University (formerly Utica College), Utica, NY, USA

2014 – 2018 **Graduate Assistant**
University of North Carolina at Charlotte, Charlotte, NC, USA

2016 – 2016 **Intern**
Oak Ridge National Laboratory (ORNL), Oak Ridge, TN, USA

2012 – 2013 **GIS Specialist**
Nationale Genossenschaft für die Lagerung radioaktiver Abfälle NAGRA, Wettingen, Switzerland

2011 – 2011 **Intern**
Eidgenössische Forschungsanstalt für Wald, Schnee und Landschaft WSL, Birmensdorf, Switzerland

2009 – 2011 **Research Assistant**
University of North Carolina at Charlotte, Charlotte, NC, USA

2008 – 2009 **Intern**
Kanton Aargau, Departement Finanzen und Ressourcen, Aarau, Switzerland

Education

2018 **Ph.D. Geographic Information Science**
University of North Carolina at Charlotte, Charlotte, NC, USA

2017 **Graduate Certificate in Advanced Databases and Knowledge Discovery**
University of North Carolina at Charlotte, Charlotte, NC, USA

- 2011 **M.A. Geography**
University of North Carolina at Charlotte, Charlotte, NC, USA
- 2008 **B.S. Geography**
Universität Zürich, Zürich, Switzerland
Minors: Earth Sciences, Environmental Sciences

Publication List

Notes:

- Asterisks (*) denote student advisees.
- Total: 34
 - Peer-Reviewed Journal Articles: 22
 - Peer-Reviewed Book Chapters: 3
 - Proceedings/Non-Peer-Reviewed Publications: 9

Peer-Reviewed Journal Articles

- In review: Han, J., Wan, N., Jacobson, C., Andrae, M. H., Pace, N. L., Kartchner, C., **Hohl, A.**, Schonberger, R., Colquhoun, D. A. Pearson, J. F. Neighborhood Deprivation Predicts Perioperative Process: A Single Center Retrospective Cohort Analysis to Identify Geospatially-defined Clusters of Disparities in Risk-Adjusted Antiemetic Prophylaxis. *British Journal of Anesthesia*.
- Choi, M.*, Seo, J.* & Hohl, A. Contact Risk Assessment in Dynamic Indoor Settings Through Agent-Based Modeling: A Spatially Explicit and Reproducible Approach. *Geographical Analysis*.
- Accepted: Choi, M. *, Crooks, A., Wan, N., Brewer, S., Cova, T. J. & **Hohl, A.** Addressing equifinality in agent-based modeling: a sequential parameter space search method based on sensitivity analysis. *International Journal of Geographic Information Science*.
- 2024 Huang, X., Wang, S., Yang, D., Hu, T., Chen, M., Zhang, M., ... & **Hohl, A.** Crowdsourcing Geospatial Data for Earth and Human Observations: A Review. *Journal of Remote Sensing*, 4, 0105. <https://doi.org/10.34133/remotesensing.0105>
- 2023 Yan, J., Huang, X., Wang, S., He, Y., Li, X., **Hohl, A.**, ... & Lin, B. Toward a comprehensive understanding of eye-level urban greenness: a systematic review. *International Journal of Digital Earth*, 16(2), 4769-4789. <https://doi.org/10.1080/17538947.2023.2283479>
- Hohl, A.**, Choi, M.*, Medina, R., Wan, N., & Wen, M. COVID-19: adverse population sentiment and place-based associations with socioeconomic and demographic factors. *Spatial Information Research*, 1-12. <https://doi.org/10.1007/s41324-023-00544-y>
- Lotfata, A., & **Hohl, A.** Spatiotemporal associations of mental distress with socioeconomic and environmental factors in Chicago, IL, 2015–2019. *Spatial Information Research*, 1-9. <https://doi.org/10.1007/s41324-023-00524-2>

- Choi, M.* & **Hohl, A.** Investigating factors in indoor transmission of respiratory disease through agent-based modeling. *Transactions in GIS*, 00, 1–34. <https://doi.org/10.1111/tgis.13099>
- 2022 Huang, X., Wang, S., Zhang, M., Hu, T., **Hohl, A.**, She, B., ... & Li, Z. Social media mining under the COVID-19 context: Progress, challenges, and opportunities. *International Journal of Applied Earth Observation and Geoinformation*, 113, 102967. <https://doi.org/10.1016/j.jag.2022.102967>
- Hohl, A.**, & Lotfata, A. Modeling spatiotemporal associations of obesity prevalence with biking, housing cost and green spaces in Chicago, IL, USA, 2015–2017. *Journal of Transport & Health*, 26, 101412. <https://doi.org/10.1016/j.jth.2022.101412>
- Hohl, A.**, Tang, W., Casas, I., Shi, X., & Delmelle, E. Detecting space–time patterns of disease risk under dynamic background population. *Journal of geographical systems*, 24(3), 389–417. <https://doi.org/10.1007/s10109-022-00377-7>
- Hohl, A.**, & Lotfata, A. A geographical analysis of socioeconomic and environmental drivers of physical inactivity in post pandemic cities: The case study of Chicago, IL, USA. *Urban Science*, 6(2), 28. <https://doi.org/10.3390/urbansci6020028>
- Hohl, A.**, Choi, M.*, Yellow Horse, A. J., Medina, R. M., Wan, N., & Wen, M. Spatial Distribution of Hateful Tweets Against Asians and Asian Americans During the COVID-19 Pandemic, November 2019 to May 2020. *American Journal of Public Health*, 112(4), 646–649. <https://doi.org/10.2105/AJPH.2021.306653>
- Lotfata, A., & **Hohl, A.** Spatial association of respiratory health with social and environmental factors: case study of Cook County, Illinois, USA. *Cities & health*, 6(4), 791–803. <https://doi.org/10.1080/23748834.2021.2011538>
- Delmelle, E. M., Desjardins, M. R., Jung, P., Owusu, C., Lan, Y., **Hohl, A.**, & Dony, C. Uncertainty in geospatial health: challenges and opportunities ahead. *Annals of Epidemiology*, 65, 15–30. <https://doi.org/10.1016/j.annepidem.2021.10.002>
- 2021 Lan, Y., Desjardins, M. R., **Hohl, A.**, & Delmelle, E. Geovisualization of COVID-19: State of the Art and Opportunities. *Cartographica: The International Journal for Geographic Information and Geovisualization*, 56(1), 2–13. <https://doi.org/10.3138/cart-2020-0027>
- 2020 **Hohl, A.**, Delmelle, E. M., Desjardins, M. R., & Lan, Y. Daily surveillance of COVID-19 using the prospective space-time scan statistic in the United States. *Spatial and Spatio-temporal Epidemiology*, 34, 100354. <https://doi.org/10.1016/j.sste.2020.100354>
- Desjardins, M. R., **Hohl, A.**, & Delmelle, E. M. Rapid surveillance of COVID-19 in the United States using a prospective space-time scan statistic: Detecting and evaluating emerging clusters. *Applied geography*, 118, 102202. <https://doi.org/10.1016/j.apgeog.2020.102202>

- 2019 Desjardins, M. R., **Hohl, A.**, Griffith, A., & Delmelle, E. A space–time parallel framework for fine-scale visualization of pollen levels across the Eastern United States. *Cartography and Geographic Information Science*, 46(5), 428-440. <https://doi.org/10.1080/15230406.2018.1515664>
- 2018 **Hohl, A.**, Griffith, A. D., Eppes, M. C., & Delmelle, E. Computationally enabled 4D visualizations facilitate the detection of rock fracture patterns from acoustic emissions. *Rock Mechanics and Rock Engineering*, 51(9), 2733-2746. <https://doi.org/10.1007/s00603-018-1488-z>
- 2016 **Hohl, A.**, Delmelle, E., Tang, W., & Casas, I. Accelerating the discovery of space-time patterns of infectious diseases using parallel computing. *Spatial and Spatio-Temporal Epidemiology*, 19, 10-20. <https://doi.org/10.1016/j.sste.2016.05.002>
- 2014 **Hohl, A.**, Václavík, T., & Meentemeyer, R. K. Go with the flow: geospatial analytics to quantify hydrologic landscape connectivity for passively dispersed microorganisms. *International Journal of Geographical Information Science*, 28(8), 1626-1641. <https://doi.org/10.1080/13658816.2013.854900>

Peer-Reviewed Book Chapters

- 2022 Desjardins M., **Hohl, A.**, Delmelle, E. & Casas, I. Identifying and Visualizing Space-Time Clusters of Vector-Borne Diseases. In: *Faruque, F. (Ed.) Geospatial Technology for Human Well-Being and Health*, Springer. http://dx.doi.org/10.1007/978-3-030-71377-5_11
- 2020 **Hohl, A.**, Saule, E., Delmelle, E., & Tang, W. Spatiotemporal Domain Decomposition for High Performance Computing: A Flexible Splits Heuristic to Minimize Redundancy. In: *High Performance Computing for Geospatial Applications* (pp. 27-50). Springer, Cham. <https://doi.org/10.1007/978-3-030-47998-5>
- 2017 **Hohl, A.**, Zheng, M., Tang, W., Delmelle, E., & Casas, I. Spatiotemporal Point Pattern Analysis Using Ripley's K Function. In: *Karimi, H. A. & Karimi, B. (Eds.) Geospatial Data Science: Techniques and Applications*. Taylor & Francis. <https://doi.org/10.1201/b22052>

Proceedings/Non-Peer-Reviewed Publications

- 2023 Kim, J. S., Anderson, T., Shashidharan, A., & **Hohl, A.** GeoSim 2022 Workshop Report: The 5th ACM SIGSPATIAL International Workshop on Geospatial Simulation. *SIGSPATIAL Special*, 14, 1, 40–42. <https://doi.org/10.1145/3632268.3632280>
- 2021 Choi, M.* & **Hohl, A.** Investigating Spatiotemporal Indoor Contact Patterns using ABM and STKDE. *Proceedings of the 4th ACM SIGSPATIAL International Workshop on GeoSpatial Simulation* (pp. 1-8). <https://doi.org/10.1145/3486184.3491077>
- 2020 **Hohl, A.**, Delmelle, E., & Desjardins, M. Rapid detection of COVID-19 clusters in the United States using a prospective space-time scan statistic: An update. *SIGSPATIAL Special*, 12(1), 27-33. <https://doi.org/10.1145/3404820.3404825>

- 2019 **Hohl, A.**, & Chen, P. Spatiotemporal simulation: local Ripley's K function parameterizes adaptive kernel density estimation. *Proceedings of the 2nd ACM SIGSPATIAL International Workshop on GeoSpatial Simulation* (pp. 16-23). <https://doi.org/10.1145/3356470.3365528>
- 2017 Piburn, J., Stewart, R., Myers, A., Sorokine, A., Axley, E., Anderson, D., Burdette, J., Biddle C., **Hohl, A.**, Eberle, R., Kaufman, J., & Morton, A. The World Spatiotemporal Analytics and Mapping Project (WSTAMP): Further Progress in Discovering, Exploring, and Mapping Spatiotemporal Patterns Across the World's Largest Open Source Data Sets. *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*. IV-4/W2: 199-205. <https://doi.org/10.5194/isprs-annals-IV-4-W2-199-2017>
- Saule, E., Panchananam, D., **Hohl, A.**, Tang, W., & Delmelle, E. Parallel Space-Time Kernel Density Estimation. *46th International Conference on Parallel Processing (ICPP)* (pp. 483-492). <https://doi.org/10.1109/ICPP.2017.57>
- Desjardins, M. R., **Hohl, A.**, Griffith, A., & Delmelle, E. Fine-scale visualization of pollen concentrations across the Eastern United States: A space-time parallel approach. *Proceedings of the 2017 International Conference on GeoComputation*. <http://www.geog.leeds.ac.uk/groups/geocomp/2017/papers/68.pdf>
- 2016 **Hohl, A.**, Casas, I., Delmelle, E., & Tang, W. Hybrid Indexing for Parallel Analysis of Spatiotemporal Point Patterns. *Short Paper Proceedings of the 9th International Conference on Geographic Information Science*. <https://doi.org/10.21433/B3114824r3wg>
- 2015 **Hohl, A.**, Delmelle, E. M., & Tang, W. Spatiotemporal domain decomposition for massive parallel computation of space-time kernel density. *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*. II-4/W2: 7-11. <https://doi.org/10.5194/isprsannals-II-4-W2-7-2015>

Research Presentations

Notes:

- Asterisks (*) denote student advisees.
- Total: 39
 - Conferences: 25
 - Invited Talks/Panels: 15

Conferences

- 2023 **Hohl, A.**, Yellow Horse, A., Medina, R., Wan, N., Wen, M., Huang, X. & Li, Z. Spatiotemporal analysis of anti-Asian hate on social media in the United States. *Annual Meeting of the American Association of Geographers (AAG)*. Denver, CO, USA.
- Choi., M.* & **Hohl, A.** Fixing Equifinality of ABM: sequential parameter space searching method based on global sensitivity analysis. *Annual Meeting of the AAG*. Denver, CO, USA.

- 2022 **Hohl, A.**, Choi, M.*, Yellow Horse, A.J., Medina, R.M, Wan, N., & Wen, M. The Geography of Anti-Asian Hate on Twitter during the COVID-19 Pandemic, November 2019 to May 2020. *Annual Meeting of the AAG. Virtual Meeting.*
- Choi, M.* & **Hohl, A.** Investigate Respiratory Infectious disease transmission in indoor situation by spatially explicit ABM. *Annual Meeting of the AAG. Virtual Meeting.*
- Lotfata, A. & **Hohl, A.** A Geographical Analysis of Socioeconomic and Environmental Drivers of Physical Activity in Chicago, IL. *Annual Meeting of the AAG. Virtual Meeting.*
- Delmelle, E., Desjardins, M., Lan, Y., **Hohl, A.** & Shi, X. What is the role of scale in the early detection of COVID19 outbreaks? *Annual Meeting of the AAG. Virtual Meeting.*
- 2021 **Hohl, A.**, Choi, M.*, Medina, R., Wan, N., & Wen, M. Understanding Adverse Population Sentiment Towards the Spread of COVID-19 in the United States. *COVID-19 Symposium. The Immunology, Inflammation, and Infectious Disease Initiative (3i), University of Utah Health. Virtual Meeting.*
- Hohl, A.**, Choi, M.*, Yellow Horse, A., Medina, R., Wan, N., & Wen, M. Adverse sentiment and anti-Asian hate during COVID-19. *The 28th International Conference on Geoinformatics (CPGIS 2021). Virtual Meeting.*
- Hohl, A.**, Desjardins, M.R., Lan, Y., Brewer, S. & Delmelle, E. COVID-19 Surveillance. *Annual Meeting of the AAG. Virtual Meeting.*
- Choi, M.*, Chen, W.* & **Hohl, A.** Time-dependent modified SEIR model for investigating COVID-19 transmission pattern at Salt Lake City. *Annual Meeting of the AAG. Virtual Meeting.*
- Lan, Y., Desjardins, M., **Hohl, A.** & Delmelle, E. Visualizing Space-Time Patterns of COVID-19: Challenges and Opportunities. *Annual Meeting of the AAG. Virtual Meeting.*
- 2020 **Hohl, A.** & Desjardins, M. Rapid detection of COVID-19 clusters in the United States using a prospective space-time scan statistic: an update. *SIGSPATIAL COVID-2020 Workshop. Virtual Meeting.*
- 2019 **Hohl, A.**, & Chen, P. Spatiotemporal Simulation: Local Ripley's K Function Parameterizes Adaptive Kernel Density Estimation. *2nd ACM SIGSPATIAL workshop on Geospatial Simulation. Chicago, IL, USA.*
- Hohl, A.**, Tang, W., Delmelle, E. & Shi, X. Detecting Space-Time Patterns Under Non-Stationary Background Population. *Annual Meeting of the AAG. Washington, DC, USA.*
- 2018 **Hohl, A.**, Tang, W., Delmelle, E. & Shi, X. Detecting Space-Time Patterns Under Non-Stationary Background Population. *Annual Meeting of the Middle States Division of the American Association of Geographers (AAG). Montclair, NJ, USA.*
- Hohl, A.** Space-Time GIS Using Ripley's K Function. *Annual Meeting of the AAG. New Orleans, LA, USA.*

- 2017 **Hohl, A.,** Zheng, M., Jia, M., Delmelle, E., & Tang, W. Sensitivity Analysis of a High Performance Spatiotemporal Pattern Mining Algorithm. *Annual Meeting of the AAG. Boston, MA, USA.*
- 2016 **Hohl, A.,** Delmelle, E., Tang, W., & Casas, I. Spatiotemporal Domain Decomposition and Indexing for Discovery of Disease Patterns Using Parallel Computing. *Annual Meeting of the Southeastern Division of the American Association of Geographers (SEDAAG). Columbia, SC, USA.*
- Hohl, A.,** Casas, I., Delmelle, E., & Tang, W. Hybrid Indexing for Parallel Analysis of Spatiotemporal Point Patterns. *9th International Conference on Geographic Information Science. Montréal, Canada.*
- Hohl, A.** Accelerated Discovery of Infectious Disease Clusters Using Adaptive Spatiotemporal Domain Decomposition. *Annual Meeting of AAG. San Francisco, CA, USA.*
- 2015 **Hohl, A.** Spatiotemporal Domain Decomposition for Massive Parallel Processing Of Epidemiological Data. *Annual Meeting of the SEDAAG. Pensacola, FL, USA.*
- Hohl, A.,** Delmelle, E., & Tang, W. Spatiotemporal domain decomposition for massive parallel computation of space-time kernel density. *1st International Symposium on Spatiotemporal Computing, Fairfax, VA, USA.*
- Hohl, A.,** Delmelle, E., & Tang, W. 3D domain decomposition for parallel processing of massive spatiotemporal geographic data. *Annual Meeting of the AAG. Chicago, IL, USA.*
- 2011 **Hohl, A.,** Václavík, T., Rizzo, D.M., & Meentemeyer, R.K. Go with the flow: Hydrological connectivity influences the dispersal of an invasive forest pathogen. *Annual Meeting of the AAG. Seattle, WA, USA.*
- Hohl, A.,** Václavík, T., Rizzo, D.M., & Meentemeyer, R.K. Go with the flow: Hydrological connectivity influences the dispersal of an invasive forest pathogen. *26th Annual Symposium of the US-Regional Association for the International Association for Landscape Ecology (US-IALE). Portland, OR, USA.*
- Hohl, A.** Hydrological connectivity influences the dispersal of an invasive forest pathogen. *17th Annual Graduate Research Symposium of the Graduate and Professional Student Government at UNC Charlotte. Charlotte, NC, USA.*
- 2010 **Hohl, A.,** Rizzo, D.M., Václavík, T., & Meentemeyer, R.K. Stream baiting of Phytophthora ramorum for early detection of sudden oak death: Modeling forest disease spread in California at watershed level. *25th Annual Symposium of the US-IALE. Athens, GA, USA.*
- Hohl, A.** Mapping the Spread of Sudden Oak Death Disease via Stream Baiting in California Watersheds. *Annual Meeting of the SEDAAG. Birmingham, AL, USA.*

Invited Talks/Panels

- 2024 **Hohl, A.** Advances in Geospatial Analytics for Urban Health. *Symposium on Progress, prospects and challenges in urban analytics, University of Zurich. Zurich, Switzerland.*

- 2022 **Hohl, A.** Space-time clustering of COVID-19: An early career research trajectory during the pandemic. *GIScience Colloquium, Department of Geography, University of Zurich. Zurich, Switzerland.*
- Hohl, A.** The Geography of Anti-Asian Hate on Twitter during the COVID-19 Pandemic, November 2019 to May 2020. *When Big Data Meets Sociological Imagination: Transdisciplinary Approaches and Infrastructures for Computational Social Science. City University of Hong Kong. Virtual Symposium.*
- Hohl, A.** Geospatial Approaches for addressing the COVID-19 pandemic. *Utah Valley University GIS Seminar Series. Orem, UT, USA.*
- Hohl, A.** Space-time clustering of COVID-19: An early career research trajectory during the pandemic. *Distinguished Invited Speaker, Geography Graduate Student Association (GGSA), Department of Geography and Geographic Information Science (GGIS), University of Illinois Urbana-Champaign. Champaign, IL, USA.*
- Hohl, A.** How Can We Stop AAPI Hate and Bias? Research & Policy Perspectives. Panelist. *Asia Center, Hinkley Institute, University of Utah. Salt Lake City, UT, USA.*
- Hohl, A.** The Geography of Anti-Asian Hate on Twitter during the COVID-19 Pandemic – A Spatial and Temporal Analysis. *Spatial Utah Data Science (SUDS) Discussion Group Meeting, University of Utah. Virtual Meeting.*
- 2020 **Hohl, A.** Daily Surveillance of COVID-19. *Johns Hopkins University GIS Week. Virtual Meeting.*
- 2019 **Hohl, A.** Data Science + Geography. *Data Science Day 2019, University of Utah. Salt Lake City, UT, USA.*
- 2017 **Hohl, A.** Spatiotemporal Domain Decomposition for Adaptive Bandwidth Kernel Density Estimation under Spatially and Temporally Inhomogeneous Background Population. *Center for Applied GIS Seminar Series, UNC Charlotte. Charlotte, NC, USA.*
- Hohl, A.** Accelerating the discovery of space-time patterns of infectious diseases. *Brown Bag Seminar, Department of Geoinformatics (Z-GIS), University of Salzburg. Salzburg, Austria.*
- Hohl, A.** Accelerating the Detection of Space-Time Clusters in Disease Outbreaks. *Planning Grant Workshop NSF I/U CRC, UNC Charlotte. Charlotte, NC, USA.*
- 2016 **Hohl, A.** Hybrid Indexing for Parallel Analysis of Spatiotemporal Point Patterns. *Center for Applied GIS Seminar Series, UNC Charlotte. Charlotte, NC, USA.*
- Hohl, A.** Spatiotemporal Domain Decomposition for Massive Parallel Processing of Epidemiological Data. *Charlotte-Mecklenburg GIS User Group Meeting. Charlotte, NC, USA.*

2015 **Hohl, A.** Spatiotemporal Domain Decomposition for Massive Parallel Processing of Epidemiological Data. *Center for Applied GIS Seminar Series, UNC Charlotte. Charlotte, NC, USA.*

Funding History

Internal Research Grant

2020 **PI.** A Geospatial Big Data Platform for Understanding Population Sentiment Toward the Spread of COVID-19 in the United States. University of Utah, 3i VPR Seed Grant Special Emphasis: Emerging COVID-19/SARS-CoV-2 Research (\$25,000, 5/1/2020 - 4/30/2021).

Scholarships

2017 James W. Clay Memorial Scholarship, *UNC Charlotte* (\$300).
 2016 Provost Doctoral Teaching Fellowship, *UNC Charlotte* (\$5000).
 2014 Graduate Assistant Support Plan, *UNC Charlotte* (\$76,000).

Teaching Experience

Instructor

School	Year	Term	Course
University of Utah	2024	Spring	GEOG 5165/6165: Data Visualization
	2023	Fall	GEOG 3100/6100: Introduction to GIS and Cartography GEOG 5150/6150: Geospatial Big Data
		Spring	GEOG 3100/6100: Introduction to GIS and Cartography
	2022	Spring	GEOG 5165/6165: Data Visualization
	2021	Fall	GEOG 3100/6100: Introduction to GIS and Cartography GEOG 5150/6150: Geospatial Big Data
		Spring	GEOG 5963/6960: Geovisualization
	2020	Fall	GEOG 3100/6100: Introduction to GIS and Cartography
		Spring	GEOG 3100/6100: Introduction to GIS and Cartography GEOG 5165/6165: Web GIS
Utica University	2019	Fall	GEOG 5963/6960: Geographic Data Science
	2019	Summer	DSC 607: Data Mining DSC 611: Data Visualization
		Spring	DSC 607: Data Mining DSC 609: Machine Learning DSC 611: Data Visualization

2018 Fall DSC 607: Data Mining
DSC 609: Machine Learning

Graduate Instructor

School	Year	Term	Course
University of North Carolina at Charlotte	2018	Spring	GEOG 4103/5103: Computer Programming for GIS Applications
	2017	Spring	GEOG 4103/5103: Computer Programming for GIS Applications
	2016	Fall	GEOG 4150 Spatial Data Development with GPS & GIS

Teaching Assistant

School	Year	Term	Course	Instructor
University of North Carolina at Charlotte	2017	Fall	GEOG 6030/8030: Geographic Information Science and Technology	Dr. Eric Delmelle
	2016	Spring	GEOG 4132/5132: Spatial Modelling for Social and Economic Applications	Dr. Elizabeth Delmelle
	2015	Spring	GEOG 6035/MBAD 6258/MSRE 6258: Site Feasibility Analysis GEOG 3120: Introduction to Geographic Information Systems	Dr. William Graves Ms. Laurie Garo

Service & Outreach Activities

Editorial Board Member

2020 – Pres. Cartography and Geographic Information Science

Ad-hoc Reviewer

American Journal of Public Health
Annals of GIS
Annals of the American Association of Geographers
Applied Geography
BMC Medicine
Computational Urban Science
Cities
Environment and Planning B: Urban

Analytics and City Science
Epidemiology and Infection
Frontiers in Epidemiology
Geographical Analysis
GeoInformatica
International Journal for Geographical Information Science
International Journal of Applied Earth Observation and Geoinformation

International Journal of Digital Earth
 Journal of Medical Internet Research
 International Journal of Urban Sciences
 INQUIRY
 ISPRS International Journal of Geo-Information
 Journal of Geographical Systems
 Journal of Maps
 Journal of Medical Internet Research
 Journal of Spatial Science
 Landscape and Urban Planning
 Nature Communications Medicine
 Nature Scientific Data

Nature Scientific Reports
 Parasites and Vectors
 PLOS Neglected Tropical Diseases
 PLOS ONE
 Social Science & Medicine
 Spatial and Spatio-temporal Epidemiology
 Sustainability
 The Professional Geographer
 Transactions in GIS
 Transactions on Spatial Algorithms and
 Systems

Committee Member/Session Chair/Organizer

- 2023 Symposium on Harnessing the Geospatial Data Revolution for Sustainability Solutions: Data-intensive Spatial Modeling for Complex Geographic Problems. *Annual Meeting of the AAG, Denver, CO, USA.*
 ACM SIGSPATIAL SpatialEpi 2023 Workshop. *Hamburg, Germany.*
 ACM SIGSPATIAL GeoSim 2023 Workshop. *Hamburg, Germany.*
- 2022 ACM SIGSPATIAL SpatialEpi 2022 Workshop. *Seattle, WA, USA.*
 ACM SIGSPATIAL GeoSim 2022 Workshop. *Seattle, WA, USA.*
- 2021 ACM SIGSPATIAL COVID-2021 Workshop. *Beijing, China.*
 ACM SIGSPATIAL GeoSim 2021 Workshop. *Beijing, China.*
 Nystrom Award Committee Member. *Annual Meeting of the AAG. Virtual Meeting.*
 Intersectionality, GIScience, & Public Health. *Annual Meeting of the AAG. Virtual Meeting.*
 Advances in Computational Approaches for Geospatial Health Applications. *Annual Meeting of the AAG. Virtual Meeting.*
 Robert Raskin Student Competition (Cyberinfrastructure Specialty Group). *Annual Meeting of the AAG. Virtual Meeting.*
 Geocomputation 2021. *Postponed.*
- 2020 ACM SIGSPATIAL COVID-2020 Workshop. *Seattle, WA, USA.*
 ACM SIGSPATIAL GeoSim 2020 Workshop. *Seattle, WA, USA.*
- 2019 Advances in Computational Approaches for Geospatial Health Applications. *Annual Meeting of the AAG, Washington, DC, USA.*
- 2018 Advances in Computational Approaches for Geospatial Health Applications. *Annual Meeting of the AAG, New Orleans, LA, USA.*

AAG Specialty Group Board Memberships

- 2020 – 2021 Chair, Cyberinfrastructure Specialty Group (CISG)
 2019 – 2020 Vice Chair, CISG
 2017 – 2019 Director, CISG
 2017 – 2018 Student Rep., Spatial Analysis and Modelling Specialty Group (SAM)

Advising

Current graduate students

2023 – Pres. Jiwoo Seo (M.S.), University of Utah
2021 – Pres. Makaio Kimbrough (Ph.D.), University of Utah
2020 – Pres. Moongi Choi (Ph.D.), University of Utah

Dissertation/Thesis/Capstone Project Committee Member

2022 – Pres. Ahmad Mojtoba Riyadh (Ph.D.), University of Utah
2022 – Pres. Jingjing Yan (Ph.D.), University of Arkansas
2022 – Pres. Jiuying Han (Ph.D.), University of Utah
2020 – Pres. Vanessa Bailey (Ph.D.), University of Utah
2022 – 2023 Siona Roberts (M.S.), University of Utah
2021 – 2022 Katherine Mistick (M.S.), University of Utah
2020 – 2021 Kelly O'Neill (M.S.), The University of Utah
2020 – 2021 Troy Saltiel (M.S.), The University of Utah
2020 – 2022 Adelyn Fleming (M.S.), Utah State University
2019 Margaret Baer (M.S.), Utica University
2019 Seifu Tolesa (M.S.), Utica University

Memberships

2019 – Pres. Association for Computing Machinery (ACM)
2011 – Pres. The American Association of Geographers (AAG)
2010 – 2017 South Eastern Division of the Association of American Geographers (SEDAAG)
2009 – 2011 United States Regional Association of the International Association for Landscape Ecology (US-IALE)

Media Coverage

2022 The 2020 surge of anti-Asian hate language. *@theU*. [\[link\]](#)
2022 Anti-Asian hate on Twitter spiked during pandemic, new U of U study finds. *KSTU-TV FOX 13 News*. [\[link\]](#)
2020 First daily surveillance of emerging COVID-19 hotspots. *@theU*. [\[link\]](#)
2020 Geographers' COVID-19 study offers a way to detect, monitor clusters. *Inside UNC Charlotte*. [\[link\]](#)