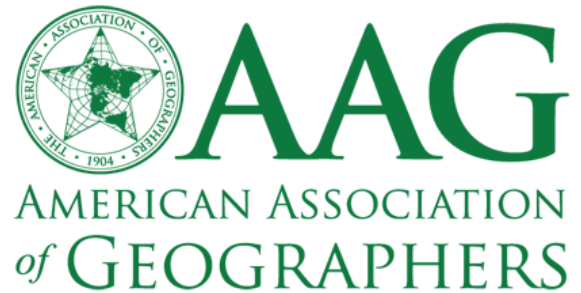


Spring 2021 Newsletter

Health & Medical Geography Specialty Group



Letter from the Board

Dear members of the Health and Medical Geography Specialty Group,

The year 2020 will be a turning point in our discipline as civil unrest, climate change, racial injustice, widening economic disparities, geopolitical re-alignments, and the COVID-19 pandemic all touch every aspect of our core mission as a specialty group. Racial injustice in policing is still killing many more Black Americans than White Americans. The COVID-19 pandemic is a grand natural experiment that has profoundly impacted the spatial arrangements of how individuals, jurisdictions, societies, and nations interact with one another. The climate crisis continues to produce more frequent and powerful hurricanes, wildfires, and other extreme weather events.

The collective content of our work may be heavily tilted towards these topics for the next several years, but this international forum for disseminating research on health and wellbeing, disease, illness, spatial epidemiology, disease ecology, population health, ethnomedicine and non-western understandings of health and medicine, spatial aspects of healthcare delivery, and healthcare policy and political economy will continue to thrive. While all disciplines naturally evolve alongside the times, the strength of our disciplinary perspective will be affirmed as we continue to seek understanding about how these and other topics affect patterns of health and well-being across the surface of the earth.

In any case, we'll see you virtually in 2021 and in person in New York in 2022.

Sincerely,

HMGSG 2020-21 Board

HMGSG Current Officers

Chair: Kevin Matthews (2020—2021)

Vice-Chair: Michael Desjardins (2020-2022)

At-Large member: Colleen Reid (2019-2021)

At-Large member: Marynia Kolak (2019-2021)

At-Large member: Kyle T. Evered (2020-2022)

At-Large member: Yanjia Cao (2020-2022)

Graduate Student member: Fikriyah Winata (2020-2022)

Graduate Student member: Shamayeta Bhattacharya (2020-2022)

Webmaster: Yu Lan (continuous)

Follow us on:



2020 HMGSG Award Winners

Melinda S. Meade Distinguished Scholarship Award in Health and Medical Geography

Susan Elliott— University of Waterloo, Canada

Emerging Scholar Award in Health and Medical Geography

Colleen Reid— University of Colorado Boulder

Jerry Shannon— University of Georgia

Jacques May Thesis Prize

Ph.D. level: Yoo Min Park—University of Illinois at Urbana-Champaign

Master's level: Elaina Gonsoroski— Florida State University

Peter Gould Student Paper Award

Lirong Kou— University of Illinois at Urbana-Champaign

Melinda S. Meade Travel Awards

Fikriyah Winata— University of Illinois at Urbana-Champaign

Lirong Kou— University of Illinois at Urbana-Champaign

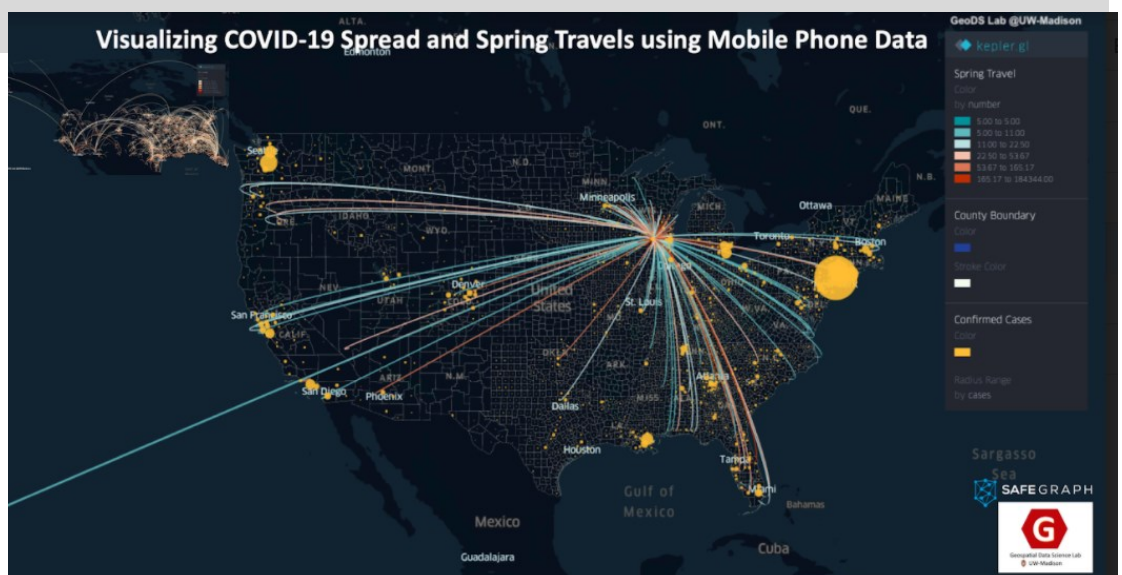
Shelby Loft— The University of British Columbia

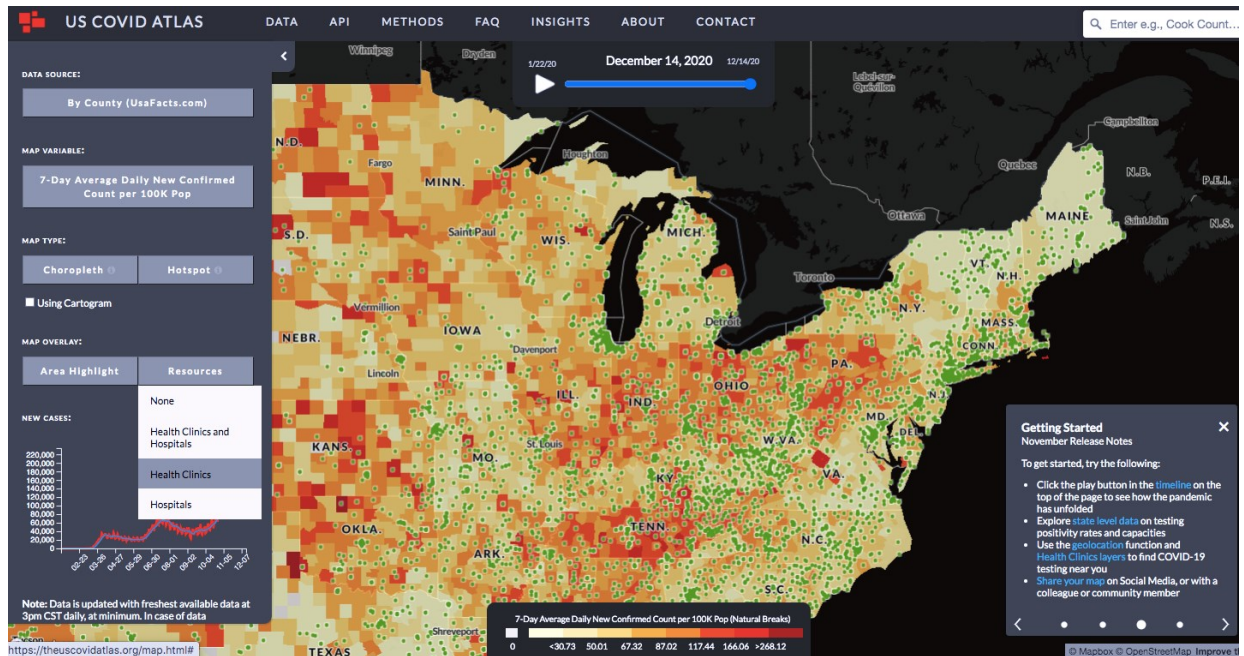
Health Data Visualization Contest

GeoDS Lab @ UW-Madison (led by Dr. Song Gao) and the CGIS Group at UMD (Junchuan Fan, Yao Li, Zhiyue Xia, Hai Lan, Guimin Zhu, Jeffery Sauer, Zheng Liu)

Health Data
Visualization Winner

Map submitted by
GeoDS Lab@UW-
Madison (2020)





The US COVID Atlas Team
University of Chicago

Awards & Grants*

Jessica Finlay

- National Institute on Aging Ruth L. Kirschstein National Research Service Award (F32 Postdoctoral Fellowship): ENHANCE: Developing a Clinical Geography Tool to Intervene in Cognitive Decline through Neighborhood Design
- University of Michigan 2020 Outstanding Postdoctoral Fellow Award

Kevin Matthews

- National Center for Chronic Disease Prevention and Health Promotion Most Influential Publication Award for "Racial and ethnic estimates of Alzheimer's disease and related dementias in the United States (2015-2060) in adults aged 65 years" Alzheimer's and Dementia, 2019

Trang VoPham

- K01 Career Development Award from the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) of the National Institutes of Health (NIH), Grant number K01 DK125612

Marynia Kolak

- Principal Investigator, the U.S. COVID Atlas Project (uscovidatlas.org), "Extending the U.S. COVID-19 Atlas to Assist Vulnerable Communities Detect and Respond to COVID-19 Hotspots funded by Robert Wood Johnson Foundation
- J. Warren Nystrom Award for Recent Dissertation, American Association of Geographers

*Awards and grants are self-reported by HMGSG members

Geospatial Health Research Symposium & HMGSG Sponsored Sessions

- Perspectives from Scholars in the Geographies of Aging**, 4/7/2021, 8:00AM - 9:15AM (PDT), Room* 35
- Utilizing Collaboration to Address the Complexities of Drinking Water**, 4/7/2021, 9:35AM - 10:50AM (PDT), Room 44
- Health and Medical Geography Peter Gould Award Finalists**, 4/7/2021, 1:30 PM-2:45 PM (PDT), Room 48
- Emerging Scholar Award in Health and Medical Geography**, 4/7/2021, 4:40 PM-5:55 PM (PDT), Room 22
- Integrated Knowledge Translation for Health and Wellbeing in Health Geography**, 4/8/2021, 8:00AM - 9:15AM (PDT), Room 20
- From Theory to Practice: Addressing Evidence Gaps and Applications of the Drinking Water Disparities Framework**, 4/8/2021, 9:35AM - 10:50AM (PDT), Room 44
- Geospatial Health Symposium 1: Environmental Health**, 4/8/2021, 11:10AM - 12:25PM (PDT), Room 8
- Geospatial Health Symposium 2: Vulnerability and Accessibility**, 4/8/2021, 1:30PM - 2:45PM (PDT), Room 8
- Geospatial Health Symposium 3: Modeling & Visualization**, 4/8/2021, 3:05PM - 4:20PM (PDT), Room 8
- Geospatial Health Symposium 4: Health Behaviors**, 4/8/2021, 4:40PM - 5:55PM (PDT), Room 8
- Geospatial Health Symposium 5: Mapping and Analyzing the Impacts of COVID-19 Outbreak in Neighborhoods I**, 4/9/2021, 8:00AM - 9:15AM (PDT), Room 8
- Geospatial Health Symposium 5: Mapping and Analyzing the Impacts of COVID-19 Outbreak in Neighborhoods II**, 4/9/2021, 9:35AM - 10:50AM (PDT), Room 8
- Geospatial Health Symposium 6: Healthy Aging & Coping during the Coronavirus Pandemic**, 4/9/2021, 11:10AM - 12:25PM (PDT), Room 8
- Geospatial Health Symposium 7: Intersectionality, GIScience, & Public Health**, 4/9/2021, 1:30 PM - 2:45 PM (PDT), Room 8
- Geospatial Health Symposium 8: Geography and Substance Use 1**, 4/9/2021, 3:05PM - 4:20PM (PDT), Room 8
- Lockdown Urbanism: Determinants and Impacts of COVID-19 on Business and Socioeconomic Development**, 4/9/2021, 4:40PM - 5:55PM (PDT), Room 5
- Geospatial Health Symposium 9: Geography and Substance Use 2**, 4/9/2021, 4:40PM - 5:55PM (PDT), Room 8
- Health and Medical Geography Specialty Group Business Meeting**, 4/9/2021, 6:15PM - 7:30PM (PDT), Room 8
- Geospatial Health Symposium 10: Infectious Diseases in Asia: Linking the Geography of Eco-Health, Environment- Ecology, and Epidemiology**, 4/10/2021, 8:00AM - 9:15AM (PDT), Room 8
- Geospatial Health Symposium 11: Land Use/Land Cover and Human Health**, 4/10/2021, 9:35 AM - 10:50 AM (PDT), Virtual 8
- Melinda S. Meade Distinguished Scholar Award in Health and Medical Geography**, 4/10/2021, 11:10AM - 12:25PM (PDT), Room 19
- Geospatial Health Symposium 13: Advances in Computational Approaches for Geospatial Health Applications - Environmental Health**, 4/10/2021, 1:30PM - 2:45PM (PDT), Room 8

Geospatial Health Research Symposium & HMGSG Sponsored Sessions

(Continued)

Geospatial Health Symposium 14: Advances in Computational Approaches for Geospatial Health Applications - Methods, 4/10/2021, 3:05PM - 4:20PM (PDT), Room 8

Geospatial Health Symposium 15: Advances in Computational Approaches for Geospatial Health Applications - Accessibility, 4/10/2021, 4:40PM - 5:55PM (PDT), Room 8

Geospatial Health Symposium 16: Advances in Computational Approaches for Geospatial Health Applications - COVID-19, 4/11/2021, 8:00AM - 9:15AM (PDT), Room 8

Geographies of Health 1, 4/11/2021, 9:35AM - 10:50AM (PDT), Room 40

Geospatial Health Symposium 18: Spatial Models of Mosquito Borne Diseases, 4/11/2021, 11:10AM - 12:25PM (PDT), Room 8

Geographies of Health 2, 4/11/2021, 11:10AM - 12:25PM (PDT), Room 40

*All rooms are virtual

~~~ Sessions end ~~~~

### Recent Publication\*

- Mollalo, A., Vahedi, B., Bhattarai, S., Hopkins, L. C., Banik, S., & Vahedi, B. (2020). Predicting the hotspots of age-adjusted mortality rates of lower respiratory infection across the continental United States: Integration of GIS, spatial statistics and machine learning algorithms. *International journal of medical informatics*, 142, 104248.
- Matthews KA, Gaglioti AH, Holt JB, Wheaton AG, Croft JB. Using spatially adaptive floating catchments to measure the geographic availability of a health care service: Pulmonary rehabilitation in the southeastern United States. *Health Place*. 2019 Mar;56:165-173. doi: 10.1016/j.healthplace.2019.01.017. Epub 2019 Feb 16. PMID: 30776768; PMCID: PMC6452632.
- Matthews, K.A., Gaglioti, A.H., Holt, J.B. *et al.* Estimating health service utilization potential using the supply-concentric demand-accumulation spatial availability index: a pulmonary rehabilitation case study. *Int J Health Geogr* 19, 30 (2020). <https://doi.org/10.1186/s12942-020-00224-2>
- Bhattacharya, Shamayeta, Ghosh, Debarchana. 2020. "Studying Physical and Mental Health Issues among Hijra, Kothi and Transgender Community in Urban India." *Social Science and Medicine*. <https://doi.org/10.1017/CBO9781107415324.004>.
- "Being fat is not a disease but a sign of good living": The Political Economy of Overweight and Obesity in Nigeria Tolulope Osayomi Ghana *Journal of Geography* 12 (1), 99-114, 2020
- Mollalo, A., Vahedi, B., & Rivera, K. M. (2020). GIS-based spatial modeling of COVID-19 incidence rate in the continental United States. *Science of The Total Environment*, 138884.
- McLafferty, S. L., Guhlincozzi, A., and Winata, F. (2021) Counting COVID: Quantitative Geographic Approaches to COVID-19. In *COVID-19 and Similar Futures Geographical Perspectives, Issues and Agendas*. Andrews, G.J., Crooks, V., Pearce, J., and Messina, J. (Eds). Springer
- Guhlincozzi, A. (2020). Buscando el Cuidado: Spatial Mismatch of Physician Services in Spanish for Latinxs in Suburban Chicago. *Journal of Latin American Geography* 19(4), 112-139. <https://t.co/JbQ8j2m74t>.
- Osayomi, T., Adeleke, R., Taiwo, O.J. et al. Cross-national variations in COVID-19 outbreak in West Africa: Where does Nigeria stand in the pandemic?. *Spat. Inf. Res.* (2020). <https://doi.org/10.1007/s41324-020-00371-5>
- Desjardins, M. R., Eastin, M. D., Paul, R., Casas, I., & Delmelle, E. M. (2020). Space-Time Conditional Autoregressive Modeling to Estimate Neighborhood-Level Risks for Dengue Fever in Cali, Colombia. *The American journal of tropical medicine and hygiene*, 103(5), 2040-2053.

- Considine E, Reid CE, Olgetree M, Dye T. 2021. Improving Accuracy of Air Pollution Exposure Measurements: Statistical Correction of a Municipal Low-Cost Airborne Particulate Matter Sensor Network. *Environmental Pollution*. 115833; doi:10.1016/j.envpol.2020.115833.
- Hines E, Reid CE. 2020. Geospatial Analysis of Hospital Flood Impacts During Hurricane Harvey Compared to Experienced Flood Zones in Harris County, Texas. *American Journal of Public Health*. 110 (4), 574-579; doi:10.2105/AJPH.2019.305520.
- Kolak, M.A., Chen, Y.T., Joyce, S., Ellis, K., Defever, K., McLuckie, C., Friedman, S. and Pho, M.T., 2020. Rural risk environments, opioid-related overdose, and infectious diseases: A multidimensional, spatial perspective. *International Journal of Drug Policy*, p.102727.
- Kolak, M., Bhatt, J., Park, Y.H., Padrón, N.A. and Molefe, A., 2020. Quantification of neighborhood-level social determinants of health in the continental United States. *JAMA network open*, 3(1), pp.e1919928-e1919928.
- Cao, Y., Stewart, K., et al. (2020) Using socially-sensed data to infer ZIP level characteristics for the spatiotemporal analysis of drug-related health problems in Maryland, *Health & Place*, Vol. 63, May 2020
- Cao, Y., Stewart, K., Wish, E., Artigiani, E., Sorg, M. H., (2019) Determining spatial access to opioid use disorder treatment and emergency medical services in New Hampshire, *Journal of Substance Abuse Treatment* 101 (2019) 55-66
- Wong, S., McLafferty, S., Planey, A. & Preston, V. 2020. Disability, wages, and commuting in New York. *Journal of Transport Geography*, 87. DOI: 10.1016/j.jtrangeo.2020.102818
- Wong, S., Cantoral, A., Téllez-Rojo, M.M., Pantic, I., Oken, E., Svensson, K., Dorman, M., Gutiérrez-Avila, I., Rush, J., McRae, N., Wright, R.O., Baccarelli, A.A., Kloog, I., & Just, A.C. 2020. Associations between daily ambient temperature and sedentary time among children 4-6 years old in Mexico City. *PLOS One*, 15(10). DOI: 10.1371/journal.pone.0241446.
- Finlay, J., Esposito, M., Tang, S., Gomez-Lopez, I., Sylvers, S., Judd, S., Clarke, P. 2020. Fast-Food for Thought: Retail Food Environments as Resources for Cognitive Health and Wellbeing Among Aging Americans? *Health & Place*. <https://doi.org/10.1016/j.healthplace.2020.102379>
- Finlay, J. In Press. Intimately Old: An Embodied and Emplaced Feminist Approach to Aging. *Hypatia*. doi: 10.1017/hyp.2020.51.
- 'Data on water, sanitation, and hygiene in six select metro cities of India', *Data in Brief*, vol. 29, 2020: doi.org/10.1016/j.dib.2020.105268, (Co-authored with S.K. Saroj, S. Goli, M.J. Rana)
- Desjardins, M. R., Hohl, A., & Delmelle, E. M. (2020). Rapid surveillance of COVID-19 in the United States using a prospective space-time scan statistic: Detecting and evaluating emerging clusters. *Applied Geography*, 102202.

*\*All listed publications are self-reported by HMGSG members*

Any questions or concern regarding the Spring 2021 Newsletter, please contact **Fikriyah Winata** ([fwinata2@illinois.edu](mailto:fwinata2@illinois.edu))