Kevin M. Mwenda
Curriculum Vitae

Last Updated: January 9, 2024

Spatial Structures in the Social Sciences (S4) | Population Studies and Training Center (PSTC)
Brown University | Providence, Rhode Island, USA
Email: kevin_mwenda@brown.edu

PROFESSIONAL APPOINTMENTS

Current Appointments

2024-	Director, Spatial Structures in the Social Sciences, Brown University
2018-	Assistant Professor (Research), Population Studies, Brown University

Current Affiliations

2019-	Faculty Affiliate, Data Science Institute (DSI), Brown University
2018-	Faculty Affiliate, Department of Sociology, Brown University

Professional Experience

2018-	Consultant, Cottage Health Research Institute (CHRI), Santa Barbara, California
2022-23	Interim Director, Spatial Structures in the Social Sciences, Brown University
2018-22	Associate Director, Spatial Structures in the Social Sciences, Brown University
2014-18	Social Demography Lab Manager, Broom Center for Demography, UC, Santa Barbara
2014-18	Instructor of Record (Lecturer), Department of Geography, University of California, Santa Barbara
2016-18	Lead Teaching Assistant, Department of Geography, University of California, Santa Barbara
2012-16	Teaching Assistant, Department of Geography, University of California, Santa Barbara
2011-12	Teaching Assistant, Department of Geography, Dartmouth College
2010-12	GIS/Spatial Analysis Specialist, Department of Geography, Dartmouth College
2007-12	Research Assistant, Computational Genetics Lab, Dartmouth-Hitchcock Medical Center

EDUCATION

2018	Ph.D., Geography, University of California, Santa Barbara
2014	M.A., Geography, University of California, Santa Barbara
2010	B.A., Environmental Studies *with Honors (*minor in Engineering Sciences), Dartmouth College

Additional Training:

2020	Data Science Course Design Institute, Brown University (November 25 – December 4)
2017	Machine Learning in the Social Sciences, University of Michigan, Ann Arbor (August 7 – 11)

REFEREED PUBLICATIONS

Peer-Reviewed Journal Articles

2023   Lopez-Carr, D., Pricope, N.G., Mwenda, K.M., Daldegan, G.A., Zvoleff, A., Lopez-Carr, David. A Conceptual Approach Towards Improving Monitoring of Living Conditions for Populations Affected by Desertification, Land Degradation, and Drought. *Sustainability 2023.* 15(12), 9400. DOI:10.3390/su15129400

2022   deSouza, P.N, Hammer, M., Anthamatten, P., Kinney, P.L., Kim, R., Subramanian, S.V., Bell, M.L, Mwenda, K.M. Impact of Air Pollution on Stunting Among Children in Africa. *Environmental Health.* (2022) 21:128. DOI: 10.1186/s12940-022-00943-y

2022   Pricope, N.G., Daldegan, G.A., Zvoleff, A., Mwenda, K.M., Lopez-Carr, D., Noon, M. Operationalizing an integrative socio-ecological framework in support of global monitoring of land degradation. *Land Degradation & Development.* 34(1): 109-124. DOI: 10.1002/ldr.4447

2022   Nour, A., Mwenda, K.M., Wei, G., Lurie, M.N. Healthcare accessibility in preconflict Syria: a comparative spatial analysis, *BMJ Open 2022;*0:e059210. DOI:10.1136/bmjopen-2021-059210

2022   deSouza, P.N, Dey, S., Mwenda, K.M., Kim, R., Subramanian, S.V., Kinney, P.L., Robust relationship between ambient air pollution and infant mortality in India. *Science of the Total Environment.* 815 (2022): 152755. DOI:10.1016/j.scitotenv.2021.152755

2021   McKenzie, G., Mwenda, K.M. Identifying regional variation in place visit behavior during a global pandemic. *Journal of Spatial Information Science.* 23(2021): 95-124. DOI: 10.5311/JOSIS.2021.23.170

2021   Espinosa Dice, A.L, Bengston, A.M., Mwenda, K.M., Colvin, C.J., Lurie, M. Quantifying Clinic Transfers Among People Living with HIV in the Western Cape, South Africa: A Retrospective Spatial Analysis, *BMJ Open 2021*;11:e055712. DOI:10.1136/bmjopen-2021-055712

2021   Wen, Q., Li, J., Mwenda, K.M., Ervin, D., Chatterjee, M., Lopez-Carr, D. Coal exploitation and income inequality: Testing the resource curse with econometric analyses of household survey data from northwestern China, *Growth and Change.* 00, 1–18. DOI: 10.1111/grow.12592

2020   Cassels, S., Mwenda, K.M., Biney, A.A.E, Jenness, S.M. Is it the Timing? Short-term Mobility and Coital Frequency in Agbogbloshie, Ghana, *Archives of Sexual Behavior.* DOI: 10.1007/s10508-020-01815-7

2020   Bosco, E., Zullo A.R., McConeghy, K.W., Moyo, P., van Aalst, R., Chit, A., Mwenda, K.M., Panozzo, C.A., Mor, V, Gravenstein, S. Geographic Variation in Pneumonia and Influenza in Long-Term Care Facilities: A National Study, *Clinical Infectious Diseases.* pii: ciaa081*. DOI: 10.1093/cid/ciaa081

2020   Yang, Q., You, X., Zhang, H., Mwenda, K. Wang, Y., Huang, Y. A New Method to Predict Erythrocyte Sedimentation Rate with Natural Geographical Factors and Location by Case-based Reasoning: A Case Study of China, *Chinese Geographical Science.* 30(1): 157-169. DOI: 10.1007/s11769-020-1102-7

2020   Jia, P., Yu, C., Remais, J.V., Stein, A., Liu, Y., Brownson, R.C., Lakerveld, J., Wu, T., Yang, L., Smith, M., Amer, S., Pearce, J., Kestens, Y., Kwan, M., Lai, S., Xu, F., Chen, X., Rundle, A., Xiao, Q., Xue, H., Luo, M., Zhao, Li., Cheng, G., Yang, S., Zhou, X., Li, Y., Panter, J., Kingham, S., Jones, A., Johnson, B., Shi, X., Zhang, L., Wang, L., Wu, J., Mavoa, S., Toivonen, T., Mwenda, K.M., Wang, Y., Verschuren M., Vermeulen, R., James, P., Spatial Lifecourse Epidemiology Reporting Standards (ISLE-ReSt) Statement, *Health & Place.* 61 (2020): 102243. DOI: 10.1016/j.healthplace.2019.102243

2019   Yang, Q., Zhang, H., Mwenda, K.M. County-Scale Destination Migration Attractivity Measurement and Determinants Analysis: A Case Study of Guangdong Province, China, *Sustainability.* 11(2):362. DOI: 10.3390/su11020362

2016   López-Carr, D., Mwenda, K.M., Pricope, N.G., Kyriakidis, P.C., Jankowska, M.M., Weeks, J., Funk, C., Husak, G., Michaelsen, J. Climate-Related Child Undernutrition in the Lake Victoria Basin: An Integrated Spatial Analysis of Health Surveys, NDVI, and Precipitation Data, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing.* 9 (6): 2830 – 2835. DOI: 10.1109/JSTARS.2016.2569411

2015   Mwenda, K.M., Kyriakidis, P.C., López-Carr, D. Quantifying Spatial Uncertainty of Population Estimates: Evidence from three Tanzanian districts, *Plurimondi,* [S.l.], n. 17, Oct. 2015. ISSN 2420-921X.

2013   Shi, X., Miller, S.D., Mwenda, K.M., Onda, A., Rees, J.R., Onega, T.L., Gui, J., Karagas, M.R., Demidenko, E., Moeschler, J.B. Mapping Disease at an Approximated Individual Level Using Aggregate Data: A Case Study of Mapping New Hampshire Birth Defects, *International Journal of Environmental Research and Public Health*, 10: 4161-4174. DOI: 10.3390/ijerph10094161

2013   Yang, Q., Mwenda, K.M., Miao, G. Incorporating Geographical Factors with Artificial Neural Networks to predict Reference Values of Erythrocyte Sedimentation Rate, *International Journal of Health Geographics.* 12:11.   DOI: 10.1186/1476-072X-12-11

2012   Sloan, C.D., Andrew, A.S., Gruber, J.F., Mwenda, K.M., Moore, J.H, Onega, T, Karagas, M.R, Shi, X, Duell, E.J. Indoor and Outdoor Air Pollution and Lung Cancer in New Hampshire and Vermont, *Toxicological & Environmental Chemistry.* 94(3): 605-615. DOI:10.1080/02772248.2012.659930

Peer-Reviewed Conference Proceedings

2019   Li, J., Mwenda, K.M., Stanfield, L., Beswick, R. Analysis of Countywide Clostridium Difficile Infection using Descriptive Statistics and Geographic Information Systems Mapping. *Open Forum Infectious Diseases* (Supplement_2): S827-S827. October 5. Washington, DC. DOI: 10.1093/ofid/ofz360.2073

2015   López-Carr, D., Mwenda, K.M., Pricope, N.G., Kyriakidis, P.C., Jankowska, M.M., Weeks, J, Funk, C, Husak, G., Michaelsen, J. A Spatial Statistical Analysis of Climate-related Child Malnutrition in the Lake Victoria Basin*. Proceedings of the *2015 International Geoscience and Remote Sensing Symposium (IGARSS)*. July 26-31. Milan, Italy. DOI: 10.1109/IGARSS.2015.7326335

Peer-Reviewed Reports

2022   Lopez-Carr, D., Brablec, G., Mwenda, K.M., Pricope, N.G., Teich, I., Fernandez, Maria Angelica., Noon, M., Daldegan, G., Zvoleff, A., A Review of Pilot Country Workshops in Support of UNCCD Strategic Objectives (SO) 1, 2, and 3: A case study testing the usefulness of the datasets and approaches suggested to monitor progress. October 2022. *PDF*

2021   Lopez-Carr, D., Mwenda, K.M, Mapes, K.L., Sokolow, S.H., Liu, L., Pricope, N.G., A Review of Publicly Available Geospatial Datasets and Indicators in Support of UNCCD Strategic Objective (SO) 2: To Improve Living Conditions of Populations Affected by Desertification, Land Degradation, and Drought. Tools4LDN Technical Report on Monitoring Progress Towards UNCCD Strategic Objective 2. May 2021. *PDF*

2021   Pricope, N.G, Mapes, K.L., Mwenda, K.M, Sokolow, S.H., Lopez-Carr, D., A Review of Publicly Available Geospatial Datasets and Indicators in Support of Drought Monitoring: Tools4LDN Technical Report on Monitoring Progress Towards UNCCD Strategic Objective 3*. Feb 2021. *PDF*

2020   Mwenda, K., Wei, G., Lei, J., Grigsby-Toussaint, D. Lopez-Sander, L., Vivier, P., White, M. Rhode Island and COVID-19: Tracing the Pandemic*. Sep 2. *S4 | PSTC.* https://s4.ad.brown.edu/covid19/report.html

Peer-Reviewed Abstracts presented at Conferences

2024   VanHelene, A., Mishra, S., Jain, S., Wei, G., Mwenda, K.M., Warner, J. Travel Distance as a Potential Impediment to Clinical Trial Participation: a GIS Analysis of New England NCI-Designated Centers. *American Medical Informatics Association 2024 Informatics Summit* (*Scheduled*: March 18 – 21, Boston, MA)

2022   Pricope, N.G., Lopez-Carr, D., Mwenda, K.M., Daldegan, G.A., Zvoleff, A., Operationalizing an integrative socio-ecological framework in support of global efforts to achieve land degradation neutrality. *American Geophysical Union Annual Meeting* (Dec 14, Online)

2022   Liniger, H., Teich, I., Herrick, J., Sánchez López, R., Otero García, J., Espina Arango, O., Lemann, T., Fernandez, M.A., Daldegan, G., Noon, M., Neira Mendez, F., Pricope, N., Gama Beltran, D., Lopez-Carr, D., Mwenda, K., Sevillano Cardenas, A., González Roglich, M., Zvoleff, A. Verification of degradation trends and monitoring of progress towards Land Degradation Neutrality (LDN) through the integration of free and open platforms and ground truthing: A national-level application to Colombia. *European Space Agency's Living Planet Symposium.* (May 24, Bonn, Germany)

2022   Mwenda, K.M., Pricope, N.G., Daldegan, G.A., Zvoleff, A., Lopez-Carr, D. Integrating Environmental, Population and Livelihood Datasets to quantify Human Dimensions of Desertification and Land Degradation (DLD): Age and Gender Structures. *Population Association of America Annual Meeting* (Apr 7, Atlanta, GA)

2021   Pricope, N.G, Lopez-Carr, David, Mwenda, K.M., Sokolow, S.H., Daldegan, G., Zvoleff, A. Integrating freely available global population and drought datasets for land degradation and population vulnerability monitoring and reporting. *IUSSP International Population Conference* (Dec 7, Hyderabad, India)

2021   Pricope, N.G., Lopez-Carr, D., Mwenda, K.M., Sokolow, S.H., Mapes, K., Zvoleff, A., Gonzalo, G. Integrating Socio-economic and Drought Datasets for Global Land Degradation Monitoring and Reporting. *American Meteorological Society Annual Meeting* (Jan 11-15, Virtual)

2020   White, M., Mwenda, K.M., Wei, G. Developing Spatial Inequality—The Case of Kenya. *Population Association of America Annual Meeting* (Apr 22-25, Washington, DC)

2019   Mwenda, K.M., Wei, G. Assessing Indicators of Chronic Child Undernutrition using Machine Learning Techniques. *Population Association of America Annual Meeting* (Apr 11, Austin, TX)

2018   Mwenda, K.M., López-Carr, D. Chronic Child Undernutrition in Kenya: A Multilevel and High-Resolution Spatial Modelling Approach. *Population Association of America Annual Meeting.* (Apr 26, Denver, CO)

2017   Cassels, S., Mwenda, K.M. Short-Term Mobility and Sexual Behaviour – Testing the Selection, Enabling, and Influence Hypotheses. *Population Association of America Annual Meeting.* (Apr 28, Chicago IL)

2017   Jin, A., Mwenda, K.M. Fine-Scale Spatial Modelling of Child Undernutrition in Kenya. *Population Association of America Annual Meeting.* (Apr 27, Chicago IL)

2014   Mwenda, K.M. Quantifying Uncertainty of Spatial Interpolation of Fine Particulate Matter in Small Regions using Empirical Bayesian Kriging. 4th *International Chemical and Environmental Conference.* (Feb 15, Kuala Lumpur, Malaysia)

2012   Mwenda, K.M., Shi, X. Spatial Interpolation of Fine Particulate Matter in New Hampshire using Landuse-based Kriging. *GIScience conference.* (Sep 18-21, Columbus OH)

2012   Mwenda, K.M., Shi, X., Onega, T.L., Karagas, M.R., Moore, J.H., Andrew A.S. Modeling Spatial Variation of Bladder Cancer Prognosis and Travel Time to Treatment Facility using Geographically Weighted Regression. *Pacific Symposium on Biocomputing conference.* (Jan 3-7, Kona HI)

PROFESSIONAL ACTIVITIES

Conference Presentations

2022   Mwenda, K.M. Microscale mapping of COVID-19 cases: A kernel-based clustering approach. *American Association of Geographers Annual Meeting.* (Feb 26, Virtual)

2020   Mwenda, K.M. Examining Determinants of Chronic Childhood Undernutrition in Kenya: A Multilevel & Spatial Analysis. *American Association of Geographers Annual Meeting | Nystrom Award Finalist.* (Apr 7, Denver CO)

2020   White, M., Mwenda, K.M., Wei, G. Developing Spatial Inequality—The Case of Kenya. *American Association of Geographers Annual Meeting.* (Apr 7, Denver CO)

2018   Mwenda, K.M. Multilevel Spatial Modelling of Chronic Child Undernutrition in Kenya. *American Association of Geographers Annual Meeting.* (Apr 13, New Orleans LA)

2017   López-Carr, D., Cifuentes, S., Schumacher, B., Williams, E., Ervin, D., Krell, N., Mwenda, K.M., Castillo, F., Smith, W., Suski, N., Ying, S. Planetary Health: A Framework for Sustainable and Equitable Food and Nutrition Systems in socio-ecological hotspots. *Planetary Health Annual Meeting.* (Apr 29-30, Cambridge MA).

2015   Mwenda, K.M. Implications of Spatial Uncertainty of HIV Prevalence Estimates in Tanzania. *University of California Global Health Day Conference.* (Apr 18, Los Angeles CA)

2012   Mwenda, K.M., Shi, X., Onega, T.L., Karagas, M.R., Moore, J.H., Andrew A.S. Detecting Association between Bladder Cancer Recurrence and Travel Time to Treatment Facility in New Hampshire. *American Association of Geographers Annual Meeting.* (Feb 25, Manhattan NY)

Invited Lectures and Seminars

2023   "BIG DATA in Population Studies" Data, Ethics and Society, Data Science Institute (DSI), Brown University. October 6 & November 20, 2023

2022   "Integrating earth observations and socioeconomic datasets to quantify and assess human-environment dimensions of land degradation" GeoSpectives Seminar Series, Department of Geography, McGill University. October 14, 2022

2021   "Quantifying Spatial Uncertainty of reported COVID cases using the Restricted and Controlled Monte Carlo (RCMC) Process." Spatial Analytics + Data Seminar Series. Newcastle University, University of Bristol and the Alan Turing Institute. May 11, 2021

2021   "Impact of Air Pollution and Climate Change on Anthropometric Outcomes Among Children in Africa." Department of Geography & Geographic Information Science. University of Illinois Urbana-Champaign. March 05, 2021

2020   Global Health Seminar: Interdisciplinary Perspectives on Disability and Death in the Global South (PHP2710). School of Public Health. Brown University. October 26, 2020

2020   "Examining Determinants of Childhood Stunting from a Multilevel and Spatial Perspective." Population, Education and Health Center. University of Missouri. April 16, 2020 (*Postponed*)

2020 "High-resolution population estimates within built environments: Towards mitigating uncertainty." Senseable City Lab. Massachusetts Institute of Technology (MIT). February 18, 2020

2020 "Chronic Childhood Undernutrition in Kenya: Examining Determinants from a Multilevel and Spatial Perspective." Population Studies and Training Center. Brown University. February 13, 2020

Invited Panels

2022 Alumni Career Panel, Population Health in Geography (PHiG) Working Group, *UCSB Geography Department,* Santa Barbara CA, May 25, 2022.

2021 Alumni Career Panel, *UCSB Broom Center for Demography,* Santa Barbara CA, May 17, 2021.

2020 Alumni Colloquium, *UCSB Geography Department,* Santa Barbara CA, December 3, 2020.

2020 Life After Dartmouth, *Geography Department, Dartmouth College,* Hanover NH, November 9, 2020.

2019 Life After Dartmouth, *Geography Department, Dartmouth College,* Hanover NH, November 13, 2019.

2019 Current Topics in Eastern Africa and Related Geographies, *American Association of Geographers Annual Meeting,* Washington DC, April 5, 2019.

2015 California Forum for Diversity in Graduate Education, *University of California, Santa Barbara*, CA, November 7, 2015

2015 W.E.B Du Bois: Academic Communities for Excellence (ACE), *University of California, Santa Barbara*, CA, March 4, 2015

Invited Workshops

2023 Using Maps in Your Research: Applications of Geospatial Data Analysis. *Association for Behavioral and Cognitive Therapies (ABCT)*, May 18, Online

2016 Visualizing Spatial Data using R*. UCSB Broom Center for Demography,* Santa Barbara, CA

2016 Geographically Weighted Regression (GWR)*. UCSB Broom Center for Demography,* Santa Barbara, CA

2015 Visualizing Spatial Data using R*. UCSB Broom Center for Demography,* Santa Barbara, CA

2014 Working with U.S. Census Data*. UCSB Broom Center for Demography,* Santa Barbara, CA

2013 Geographically Weighted Regression (GWR)"*. UCSB Broom Center for Demography,* Santa Barbara CA

Professional Membership

American Association of Geographers (AAG)

Population Association of America (PAA)

RESEARCH GRANTS AND CONTRACTS

2023-24   *Co-Principal Investigator.* "Nature and Health: A Cells to Society Approach," (PI: Diana Grigsby-Toussaint, Co-PI). Office of the Vice President for Research Award, Brown University. 2/1/2023 – 6/30/2024 (Total costs: $50,000)

2022-27   *Co-Principal Investigator.* "Using Multimodal Real-Time Assessment to Phenotype Dietary Non-Adherence Behaviors that Contribute to Poor Outcomes in Behavioral Obesity Treatment" (PI: Stephanie Goldstein). R01 DK132210-01. National Institutes of Health: 5/2022 – 4/2027. (Total Costs: $674,668)

2020-23   *Co-Principal Investigator.* "Is greenspace associated with mental and physical health among pregnant women? A geo-ethnographic exploration," (PI: Diana Grigsby-Toussaint, Co-PI: Patrick Vivier). Office of the Vice President for Research Award, Brown University. 2/11/2020 – 3/31/2023 (Total costs: $95,000)

2020-22   *Co-Principal Investigator*, Component 2: "Understanding the socio-environmental interactions between drought, land degradation, and poverty" (Component 2 PI: David López-Carr). Global Environment Facility (GEF) Grant. GEF Project ID 10230. "Strengthening Land Degradation Neutrality data and decision-making through free and open access platforms," (Project PI: Mariano Gonzales-Roglich). Conservation International. $2,000,000. Component 2 Budget: $406,314: 3/23/2020 – 8/31/2022. (Total Costs: $66,750)

FELLOWSHIPS, GRANTS & AWARDS

Fellowships & Grants

2019-20   PSTC Faculty Fellowship ($2,500)

2018   AAG Dissertation Research Grant ($1,000)

2018   UCSB Graduate Division Dissertation Fellowship [1-quarter tuition and stipend] ($7,500)

2018   UCSB Academic Senate Doctoral Student Travel Grant ($900)

2017   UCSB Dean's Grant for Summer ICPSR Training ($2,000)

2016   UCSB Department of Geography Leal Ann Kerry Mertes Scholarship ($1,908)

2009   National Institute of Health (NIH) Superfund Research Grant ($4,800)

Awards

2023   Dean's Award for Excellence in Teaching, Brown University

2020   J. Warren Nystrom Award (*Finalist),* AAG

2017-18   Population Association of America (PAA) Travel Award, UCSB Broom Center for Demography

2017-18   Academic Senate Outstanding Teaching Assistant Award (*Nominated),* UCSB

2017   Graduate Division Professional Development Award, UCSB

2017   Department of Geography Excellence in Teaching Award, UCSB

2016-18   Graduate Students Research and Travel Award, UCSB Broom Center for Demography

2014-18   Graduate Students Association Conference Travel Award, UCSB

2013-18   Jack & Laura Dangermond Travel Award, UCSB Department of Geography

2012   Travel Award, Dartmouth College Institute for Quantitative Biomedical Sciences (iQBS)

TEACHING & ADVISING

BROWN UNIVERITY
Programs/Workshops
2019-   S4 GIS Institute (Offering: participants)
            (Winter 2024: 8)
            (Summer 2023: 12)
            (Winter 2023: 7)
            (Summer 2022: 12)
            (Winter 2022: 7)
            (Summer 2021: 13) - *Virtual*
            (Winter 2021: 14) - *Virtual*
            (Summer 2020: 14) - *Virtual*
            (Winter 2020: 13)
            (Summer 2019: 16)
            (Winter 2019: 20)

Courses
2021-   SOC 2961B – Applications in GIS (Offering: students)
            (Spring 2023: 8)
            (Spring 2021: 2) – *Virtual*

2020-   SOC 2612 - GIS & Spatial Analysis for the Social Sciences (Offering: students)
            (Spring 2022: 16)
            (Spring 2020: 16) – *Virtual*

2019-   SOC 1340 - Principles and Methods of GIS (Offering: students)
            (Fall 2023: 40)
            (Summer 2023: 1)
            (Fall 2022: 18)
            (Fall 2021: 15)
            (Fall 2020: 21) - *Virtual*
            (Fall 2019: 17)
            (Spring 2019: 20)

Internship Advisor
2021   Zhongyao Cai – Sc.M., Social Analysis and Research

Master's Thesis Supervised
2023   Lucas Blackmore – MPH, School of Public Health (Role: Reader)
2020   Jaejoon Shin – MPH, School of Public Health (Role: Advisor)
2019   Nour Audi – MPH, School of Public Health (Role: Reader)

Undergraduate Independent Concentration Advisor
2022   Alexander Kamper – Geography and Computer Science

Independent Study Supervised
2022   Chris Chae – Computer Science
2021   Wangdrak Dorji – Computational Biology

Undergraduate Senior Honors Thesis Advisor
2022   Rose Hall – Social Analysis and Research *[SAR Thesis Prize Winner]*
2020   Ana Lucia Espinosa Dice – Applied Mathematics and Public Health (Co-Advisors: Mark Lurie & Angela
            Bengtson) *[2020 recipient of the Award for Excellence in Public Health Honors Thesis]*

UNIVERSITY OF CALIFORNIA, SANTA BARBARA
Courses
2014-17   GEOG W12 - Maps and Spatial Reasoning
2015-17   GEOG 5 - People, Place and Environment

Undergraduate Independent Study
2017   Annika Tan - B.S. in Statistics and Data Science (minor in Spatial Studies)

Research Mentorship Program
2017   Cathy Zhang – Mountain View High School
2017   Emmanuel Flores – Bakersfield high School
2016   Andy Jin – Westlake High School

ACADEMIC SERVICE

University & Department Service
Brown University
2024-   Director, Spatial Structures in the Social Sciences, PSTC
2022-   PSTC Steering Committee Member
2022-23   Interim Director, Spatial Structures in the Social Sciences, PSTC
2022-   Advisory Board Member, Master's Program in Social Data Analytics
2022-   Annual Review Committee, Sociology Department
2021-22   Reviewer for Humanities and Social Sciences Summer Planning and Funding, The Graduate School
2021-   Reviewer for Research Seed Awards, Office of the Vice President for Research
2020-23   Social Sciences Faculty Representative, Graduate Council
2023-   Search Committee Member, Postdoctoral Research Associate, School of Public Health
2020-   Search Committee Member, Postdoctoral Research Associate in Spatial Analysis, PSTC | S4
2020-21   Search Committee Faculty Member, GIS and Data Librarian, University Library
2018-22   Associate Director, Spatial Structures in the Social Sciences, PSTC

University of California, Santa Barbara
2018   Faculty Search Committee member, Department of Geography
2018   Web Sub-Committee member, Department of Geography
2016   Joint Doctoral Program Committee member, Department of Geography, UCSB & SDSU.

Professional Service
Events Organized
* indicates chaired sessions

2024   Organizing Committee Member. *Symposium on Geospatial Approaches to Pressing Grand Challenges: Global Pandemics, Climate Change, and Food Security* at the Annual American Association of Geographers (AAG) Meeting, (*Scheduled*: April 16 – 20, Honolulu, HI)

2024*   Session Co-organizer (with Mark Rosenberg & Sandy Wong). *Geographies of Health and Health Care* at the Annual American Association of Geographers (AAG) Meeting, (*Scheduled*: April 16 – 20, Honolulu, HI)

2021   Session Co-organizer (with Meifang Li & Xun Shi). *GIS and Geospatial Analysis in Public Health* at the 28th International Conference on Geoinformatics, Nanchang, Jianxi Province, China

2021   Session Co-organizer (with Mark Rosenberg & Sandy Wong). *Geographies of Health I & II* at the Annual American Association of Geographers (AAG) Meeting, Virtual

2020*   Session Co-organizer (with Guofeng Cao & Rui Zhu). *Geo-AI Symposium: Deep Learning of Geospatial Patterns & Applications* at the Annual American Association of Geographers (AAG) Meeting, Denver CO

2020*   Session Co-organizer (with Mark Rosenberg & Sandy Wong). *Geographies of Health and Health Care* at the Annual American Association of Geographers (AAG) Meeting, Denver CO

2019   Session Co-organizer (with Guofeng Cao & Rui Zhu). *Geo-AI & Deep Learning Symposium: Deep Learning of Geospatial Patterns & Applications* at the Annual American Association of Geographers (AAG) Meeting, Washington DC

2018   Session Co-organizer (with Guofeng Cao & Rui Zhu). *Deep Learning of Geospatial Patterns & Applications* at the Annual American Association of Geographers (AAG) Meeting, New Orleans LA

2017*   Session Co-organizer (with Rui Zhu). *Uncertainty in Spatial Patterns* at the Annual American Association of Geographers (AAG) Meeting, Boston MA

2016   Session Co-organizer (with Daniel Ervin & David Lopez-Carr). *Space and place in population, health, and environment research* at the Annual American Association of Geographers (AAG) Meeting, San Francisco CA

2012*   Panel Chair. *Healthy Geographies: Travel, Transportation and Health* at the Annual American Association of Geographers (AAG) Meeting, Manhattan NY

Editorial Service
Reviewer: Book proposal reviewer

2021   Routledge Introductions to Environment series

Occasional Reviewer: Manuscripts

Annals of GIS; International Journal of Health Geographics (IJHG); Journal of Spatial Information Science; PLOS One; Population & Environment; Socio-Economic Planning Sciences; Spatial Demography

Reviewer: Funding Agencies:

2023   Swiss National Science Foundation (SNSF)

2018   U.S. National Science Foundation (NSF); Geography and Spatial Sciences (GSS)

2016   International Social Science Council (ISSC)