

Andrew Kampfschulte, MS

DOCTORAL CANDIDATE IN POPULATION, HEALTH & PLACE
SPATIAL SCIENCES INSTITUTE · KECK SCHOOL OF MEDICINE · DEPARTMENT OF SOCIOLOGY
UNIVERSITY OF SOUTHERN CALIFORNIA
3616 TROUSDALE PARKWAY · LOS ANGELES, CA, 90089

🏠 kampfsca.github.io ✉ kampfsch@usc.edu
☎ +1 616-826-9706
in [Andrew Kampfschulte](#) 📖 [google scholar](#)

EDUCATION

2021 – present	Doctoral Candidate, Population, Health & Place Spatial Sciences Institute Dornsife College of Letters, Arts & Sciences	UNIVERSITY OF SOUTHERN CALIFORNIA
2014–2016	Master of Biostatistics Department of Statistics	GRAND VALLEY STATE UNIVERSITY
2010–2013	Bachelor of Science, Biology <i>Minor in Applied Statistics</i>	GRAND VALLEY STATE UNIVERSITY

RESEARCH POSITIONS AND PROFESSIONAL EXPERIENCE

2023 – present	Graduate Student Research Associate Department of Population and Public Health Sciences, Keck School of Medicine Los Angeles, CA Trainee of the USC Center for Applied Network Analysis (CANA) Trainee of the Southern California Center for Young Adult Cancer Survivorship Research (SC-CYACSR) <i>Advisor: Dr. Thomas Valente</i>	UNIVERSITY OF SOUTHERN CALIFORNIA
2018 – 2021	Senior Biostatistician/Epidemiologist Acted as primary statistical support for internal research projects. Consulted & collaborated on grant applications, study design, protocol development, analytical endpoints, and manuscripts with research physicians, scientists, and medical residents. Developed and delivered lectures on basic statistics and study design for research staff. Mentored biostatistics and epidemiology graduate students. Contributed to research projects with external collaborators. Developed and deployed spatio-temporal models for disease outbreak and community health needs assessments.	SPECTRUM HEALTH HOSPITALS <i>(now Corewell Health)</i>
2016 – 2017	Clinical Biostatistician Served as primary statistician for phase I and medical device trials, and secondary statistician for phase II & III clinical trials. Developed appropriate tables, listings, and figures for compliance with FDA submissions. Authored and peer-reviewed statistical analysis plans for clinical studies. Vetted study protocols for preparing project bids. Provided ad-hoc consulting for non-clinical research. Validated phase I-III clinical trial results using SAS. Developed power & sample size macros in SAS for clinical trials simulations.	INNOVATIVE ANALYTICS
2015	Biostatistics Student Associate Acted as primary statistical support for senior level scientists analyzing laboratory assay data to evaluate compliance with FDA, USP, and ICH guidelines. Consulted on, outlined, and organized statistical analyses of various data related to laboratory compliance and product formulation. Organized, programmed, and established an electronic data capture system for pilot manufacturing facility using JSL scripting language. Utilized a wide array of statistical techniques to performing innovative analyses on manufacturing, laboratory, and sales data. Communicated complex statistical interpretations in clear, nontechnical terms to wide range of company personnel.	PERRIGO COMPANY, PLC

PROFESSIONAL SOCIETY MEMBERSHIPS

2022–present	Spatial Statistics Society
2022–present	American Public Health Association
2022–present	American Association of Geographers
2015–present	American Statistical Association

HONORS AND AWARDS

2016	Travel Award Grant	GRAND VALLEY STATE UNIVERSITY
2015	Travel Award Grant	GRAND VALLEY STATE UNIVERSITY
2012–2016	Mu Sigma Rho Statistics Honor Society	GRAND VALLEY STATE UNIVERSITY
2011	Dean's List	GRAND VALLEY STATE UNIVERSITY

CERTIFICATIONS

2018	Health Insurance Portability and Accountability Act Certification (HIPAA)
2018	Good Clinical Practice (GCP) for Social and Behavioral Research
2018	Collaborative Institutional Training Initiative (CITI) Social Behavioral Human Subjects
2019	Epic Systems Cogito Certification
2019	Epic Systems Clarity Data Model Certification

RESEARCH INTERESTS

1. Spatial Statistics and Public Health
2. Electronic Medical Records and Privacy
3. Environmental drivers of Health Disparities

FUNDING

CURRENT

June 2023 – present	<p>Graduate Research Assistant</p> <p>Understanding the role of environment in Pediatric Health: Integrating Spatiotemporal models into clinical care</p> <p>This study uses friendship data from a cohort of high school students in Southern California to determine the social influence effects of perceived friend norms and friend e-cigarette use on individual e-cigarette use. The results of these analyses can be used to create a framework for a network-based intervention to change normative perceptions and ultimately decrease e-cigarette use among adolescents.</p> <p>Role: Principal Investigator</p> <p>Total Direct Costs: \$43,651</p>
---------------------	--

PUBLICATIONS

Authors who equally contributed to a publication are marked with a †.

PEER-REVIEWED PUBLICATIONS

2023

1. **Kampfschulte, Andrew**, and Rebecca K. Miller. "Regional participation trends for community wildfire preparedness program Firewise USA." *Environmental Research: Climate* 2, no. 3 (2023): 035013.

2022

2. McNamara, David A., Stacie VanOosterhout, David Klungle, Denise Busman, Jessica L. Parker, **Andrew Kampfschulte**, Stefan Jovinge, David Wohns, and Ryan D. Madder. "Pandemic-Associated Delays in Myocardial Infarction Presentation in Predominantly Rural Counties With Low COVID-19 Prevalence." *The American Journal of Cardiology* 169 (2022): 18-23.
3. Min, Jiangyong, Grant Young, Abdullah Umar, **Andrew Kampfschulte**, Asad Ahrar, Malgorzata Miller, Nadeem Khan, Nabil Wees, Nagib Chalfoun, and Muhib Khan. "Neurogenic cardiac outcome in patients after acute ischemic stroke: The brain and heart connection." *Journal of Stroke and Cerebrovascular Diseases* 31, no. 12 (2022): 106859.

2021

4. **Kampfschulte, Andrew**, Matthew Oram, Alejandra M. Escobar Vasco, Brittany Essenmacher, Amy Herbig, Aniruddh Behere, Mara L. Leimanis-Laurens, and Surender Rajasekaran. "Understanding Suicide in Our Community through the Lens of the Pediatric ICU: An Epidemiological Review (2011–2017) of One Midwestern City in the US." *Children* 8, no. 2 (2021): 59.
5. Shoemaker, Michael J., **Andrew Kampfschulte**, Sarah Rustmann, and Michael G. Dickinson. "Dynamic factor analysis of seasonal variation in daily physical activity in individuals with heart failure and implanted cardiac devices." *Heart Lung* 50, no. 6 (2021): 754-762.
6. Leimanis-Laurens, Mara, Danny Gil, **Andrew Kampfschulte**, Claire Krohn, Elizabeth Prentice, Dominic Sanfilippo, Jeremy W. Prokop, Todd A. Lydic, and Surender Rajasekaran. "The feasibility of studying metabolites in PICU multi-organ dysfunction syndrome patients over an 8-day course using an untargeted approach." *Children* 8, no. 2 (2021): 151.

2019

7. Kelbel, Theodore, **Andrew Kampfschulte**, and Nicholas Hartog. "Institution of clinic scheduling guidelines for early introduction of peanut in high risk infants." *Annals of Allergy, Asthma Immunology* 123, no. 6 (2019): 602-603.

UNDER REVIEW

IN PREPARATION

Kampfschulte, Andrew, Jonathan Tan. *The Geography of Healthcare Access: Transportation Burden and Care Utilization.*

Kampfschulte, Andrew. *Area Deprivation Indexes: Are They Telling Us What We Think?*

Kampfschulte, Andrew. *Spatial Autocorrelation, Margins of Error, and the ACS: Getting Population Health Right.*

INVITED TALKS AND PRESENTATIONS

1. *Trends in Firewise USA: Grassroots Engagement in a Wildfire Mitigation Program in California* (November 2021) Organization: American Geophysical Union Fall Meeting
2. *Building a Data Science Capability: Lessons Learnt* (October 2021) Organization: Big Data Ignite 2021 Conference Panel Discussion
3. *Changes in Population: Pandemic Evaluation Registry* (February 2021) Organization: Grand Rapids Citywide Research Day
4. *Using JMP as a common Language to Interpret Lab-to-Lab Data: A First-Time User's Perspective* (October 2015) Organization: JMP Users Summit North America

 CONFERENCE PRESENTATIONS

Poster Presentations

1. *Assessing Inequalities of Transportation Burden and Time Investment in Pediatric Healthcare Access in Los Angeles, CA* (June 2023) Organization: University of Maryland Time Use Conference
2. *Using JMP to Organise, Manage, and Analyse Team Rosters and Practice Data from Local Swim Teams: An Alternative to Traditional Software* (March. 2016) Organization: JMP International Users Summit

 MANUSCRIPT REVIEW

2019 – 2021

Plos One

 LEADERSHIP AND SCHOOL SERVICE

2023–Present

Population, Health & Place Student Liason

USC SPATIAL SCIENCES INSTITUTE

2023–Present

Population, Health & Place Student Representative,
Dornsife Graduate Students Association

USC DORNSIFE

2022

"Faculty" trip lead, Peaks & Professors

UNIVERSITY OF SOUTHERN CALIFORNIA

2018–2020

Practicum Mentor for Public Health Students

SPECTRUM HEALTH

OFFICE OF RESEARCH & EDUCATION

2018–2020

Mentor for Biostatistics Student Interns

SPECTRUM HEALTH

OFFICE OF RESEARCH & EDUCATION

 TEACHING EXPERIENCE

2017–2020

Teaching Assistant

UNIVERSITY OF SOUTHERN CALIFORNIA

SSCI301L: Maps and Spatial Reasoning

Instructed students during laboratory sections on the role of maps and spatial reasoning in the production and use of geographic information. Demonstrated course material in ArcGIS.

SSCI165lgw: Sustainability Science in the City

Instructed students during laboratory sections the influence of sustainability science on public policy and vice versa in the context of social/ethical theories, analytical methods and solutions. Demonstrated course material in ArcGIS.

2017–2020

Adjunct Faculty

GRAND VALLEY STATE UNIVERSITY

STA 215: Introductory Applied Statistics

Course Description: A technique-oriented approach to data analysis using statistical techniques. Graphical and numerical summaries of data, multivariable thinking, confidence interval estimation, regression and correlation, testing hypotheses including chi-square tests and one-way analysis of variance.

Taught 1-2 sections per semester. Developed new lecture and lab material using R & Rmarkdown.

 SKILLS

General statistical programming experience: R, SAS, JSL.

Website Development using Jekyll, Quarto, and Rmarkdown; HTML and CSS

Data Management using MSSQL, PostGreSQL, PostGIS

Workflows in Reproducible Research in Rmarkdown & Quarto

Spatial Statistics, Sensitivity Analysis, and Statistical Simulations

Document generation in L^AT_EX