

Stephen Scroggins

Saint Louis University
College for Public Health and Social Justice
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Current Research Focus: Using geospatial research methods to identify population vulnerabilities within the context of location and geographic movement to more effectively inform and implement health interventions and resource allocation.

Education

Saint Louis University	College for Public Health and Social Justice	Ph.D. Public Health	2017-current
Indiana State University	Applied Health Sciences	M.Sc. Public Health	2015-2017
University of Missouri – St. Louis	College of Arts and Sciences	Bachelor’s Biology & Chemistry	2010-2014
IHM Academy of EMS		Emergency Medical Technician Certificate	2009-2010

Career

Researcher/ Pre-doctoral Fellow	Saint Louis University/ Sinquefeld Center for Applied Economic Research / Geospatial Institute	Developing effective and timely research studies with a focus on geographic analysis; current projects include sexual and reproductive health trends, substance use disorders, and organ donation.	2019-current
Program Evaluator & Statistician	St. Louis Ryan White Planning Council Support	Responsible for comprehensive service evaluation. Identification of programing gaps. Collaboration with diverse array of area HIV stakeholders. Utilization of most current statistical software (SAS, SPSS, R, ARCGIS, SQL)	2017-2019

Disease Intervention Specialist	City of St. Louis Department of Health, Infectious Disease	Responsible for locating and interviewing individuals who tested preliminary positive for HIV. Creating and developing social/sexual network webs for follow-up. Service referral connection and follow-up. STI, HIV, HCV testing, including blood draws. Community HIV prevention program planning and development.	2016-2017
Application Specialist	Monsanto/Bayer Research and Development	Responsible for the support and development of agricultural software application development. Utilized current technology to streamline and create pipeline systems procedures. Statistical analysis and database creation and support (SQL, Cassandra)	2015-2016
Newborn Screening Follow-Up Coordinator	Indiana State Department of Health	Responsible for management of 80,000+ newborn screening clinical tests throughout the state of Indiana. Creation and development of statewide application to organize newborn screenings and follow-up. Training and education of parents of newborns at-risk for Cystic Fibrosis, Sickle-Cell Anemia, and other genetic disorders.	2014-2015
Research Assistant	Donald Danforth Plant Science Center, President Dr. James Carrington Laboratory.	Responsible for assisting and design of agricultural viral experimentations, mainly focused on exploiting sRNA. Tissue collection and examination.	2011-2014

Peer Reviewed Publications

Shacham, E, Scroggins, S, Ellis, M, Garza, A. Prevalence of Occupation Associated with Increased Mobility During COVID-19 Pandemic. 2020 – Currently Under Review available in preprint at medRxiv doi.org/10.1101/2020.12.11.20245357

Shacham, E, Scroggins, S, Ellis, M, Garza, A. Association of County-Wide Mask Ordinances with Reductions in Daily CoVID-19 Incident Case Growth in a Midwestern Region Over 12 Weeks 2020 – Currently Under Review available in preprint at medRxiv doi.org/10.1101/2020.10.28.20221705

Scroggins, S, Ellis, M, Nagendra, S, Shacham, E. Identifying Risk Inequity Among Same-Sex Households During COVID-19 Mitigation. *Annals of LGBTQ Public and Population Health*. 2020; 1(4)

Hassert, M, Scroggins, S, Coleman, A, Shacham, E, Brien, J, Pinto, A. Heterologous flavivirus exposure provides varying degrees of cross-protection from Zika virus in a mouse model of infection. 2020 – Currently Under Review available in preprint at bioRxiv doi.org/10.1101/2020.12.23.424273

Scroggins S, Shacham E. What a difference a drink makes: determining associations between alcohol use patterns and condom utilization among adolescents. *Alcohol and Alcoholism*. 2020.

Scroggins S, Shacham E, Montera N. Integrating Mental Health Care Services Into HIV Comprehensive Care. *American Journal of Managed Care*. 2020;26(8).

Sebert Kuhlmann A, Key R, Billingsley C, Shato T, Scroggins S, Teni MT. Students' Menstrual Hygiene Needs and School Attendance in an Urban St. Louis, MO District. *J Adolesc Health*. 2020

Peer Reviewed Presentations

2021	“Data Save the Children: COVID-19 Mitigation Policy Among School Districts”	GeoResolution Conference, Saint Louis, MO	Speaker
2021	“Spatial Evaluation of COVID-19 Mitigation Policies”	Center for Health Economics and Policy. St. Louis, MO	Speaker
2021	“Place and Time: Effective Delivery of Health Services for Those Living with HIV”	Professional Fellows Speaker Series, U.S. State Department, Washington D.C.	Speaker
2021	“Assessment of Mask Wearing to Prevent COVID-19, An Econometric Approach.”	Institute for Vaccine Science and Policy, St. Louis, MO	Speaker
2020	“The Economics of Health and Evictions During the COVID-19 Pandemic”	Annual Public Health Association meeting	Oral Presentation
2020	“Exploring binge drinking among teens within the context of social networks”	Society for Prevention Research Annual Meeting, Washington D.C.	Oral presentation
2020	“Environmental risks associated with underage drinking”	College on Problems of Drug	Poster presentation

		Dependence, Conference, Hollywood, FL	
2020	“Recession recovery: identifying inequities in eviction rates among African-American census blocks”	United States Geospatial Intelligence Symposium, Tampa, FL	Poster presentation
2020	“Examining the geographical association of food inspection violations and health insurance status among neighborhoods”	GeoResolution Conference, St. Louis, MO	Poster presentation
2019	“Prescribing Pre-Exposure Prophylaxis (PrEP) among a national sample of nurse practitioners: the role of religion”	National HIV Prevention Conference, Atlanta, GA	Oral presentation
2019	“Determining the association between drug arrests and substance use treatment centers using geospatial data”	Geo Resolution Conference, St. Louis, MO	Poster presentation
2019	“Sexual identity and Alcohol Assessment”	Saint Louis Primary Care Research Symposium	Oral and poster presentation
2019	“Multiple sources of influence among binge drinking adolescents”	American Public Health Association Conference, Philadelphia, PA	Oral presentation
2018	“Who Needs What? Identifying Current Needs by Sociodemographics Characteristics Among People Living with HIV in the St. Louis, MO Region”	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention Conference, Washington D.C.	Poster presentation
2018	"At the intersection of mental health and HIV medical adherence among Ryan White Care clients in the St. Louis region"	American Public Health Association, San Diego, CA	Oral presentation
2018	“Examining the relationship between Needs and Viral Suppression”	National Ryan White HIV/AIDS Program, Washington D.C.	Poster presentation

Awards

2020	Early Investigator Award	College on Problems of Drug Dependence
2020	Saint Louis University Geospatial Innovation Challenge Participant	Chosen to showcase and compete, May 2020
2020	United States Geospatial Intelligence Foundation	Symposium recipient student assistant program winner
2019	St. Louis University 3 min Thesis Competition	Graduate student – 2 nd place winner
2019	Amazon Alexa Application Development Challenge	Showcase presenter
2018	Saint Louis University Graduate Research Symposium	Oral presentation, 2 nd place winner
2010-2014	Pierre Laclède Honors College	Graduate and scholarship recipient
2012	Monsanto	Undergraduate biological scholarship recipient

Service

2020-current	Needy Paws Dog Rescue	Volunteer foster home
2020-current	Alpha Sigma Nu Honor Society of Jesuit Colleges and Universities	Nominated and accepted standing position
2019	St. Louis Food Outreach	Volunteer
2018-current	American Public Health Association	Member – LGBTQ Caucus, abstract reviewer.
2018-2021	Centers for Disease Control and Prevention, National HIV/AIDS Prevention Conference	Abstract reviewer
2018	Saint Louis University PhD Student Association	Community outreach director
2015	Region V Genetics Consortium	Indiana State Representative

2010-2013

Phi Theta Kappa Honor Society Member

Relevant Skills

- Statistical and application programming (R, SAS, Python, SQL, SPSS, VBA)
- Website design and development with a focus on health literacy and communication
- Geospatial statistics and analysis (Geoda, ArcGIS, R)
- Frequently reviews articles for: American Journal of Preventative Medicine, Journal of Racial and Ethnic Health Disparities, and Alcohol and Alcoholism
- Database development (Relational and Object Orientated)
- Clinical and population health statistics (Donabedian modeling)
- Health program planning and evaluation