Branson Fox

Senior Statistical Data Analyst   ✉ bransonf@wustl.edu
Division of Infectious Diseases   🖥 bransonf.com
Washington University School of Medicine in St. Louis

Education

2020	**Saint Louis University**
	B.A., Sociology
	Concentration in Urbanization, Immigration and Demography
	Minor in Computational Geospatial Science
	Honors Thesis: Gatekeepers of Placemaking:
	Mortgage Lending in St. Louis, Missouri
	Advisor: Christopher Prener, Ph.D.

Research & Professional Experience

2020 – Present   **Senior Statistical Data Analyst**   Division of Infectious Disease
Washington University School of Medicine in St. Louis

- Epidemiological Theory & Methods
- Covid-19 Intervention and Evaluation
- Bibliometrics, Network Analysis, High Performance Compute

2020 – Present   **Lead Data Engineer**   St. Louis Regional Data Alliance
University of Missouri St. Louis

- Full Stack ETL & Infrastructure
- AWS, Docker, Caddy, Airflow, Python, Postgres

2018 – 2020   **Data Scientist**   Institute for Public Health
Washington University School of Medicine in St. Louis

- Sexually Transmitted Diseases
- Violence Prevention
- Community Health

2017 – 2020   **Research Assistant**   Prener Lab
Saint Louis University

- Software Development
- Spatial Ecometrics
- Advanced Spatial Methods

2019	**GIS Analyst**	Community Innovation and Action Center

University of Missouri Saint Louis

  – Statewide Needs Assessment
  – Advanced Data Scraping

2018	**GIS Intern**	Institute for Public Health

Washington University School of Medicine in St. Louis

  – Mapping Violence Prevention Efforts in St. Louis

2018	**Research Assistant**	Heart Rate Variability Lab

Washington University School of Medicine in St. Louis

  – Racial Disparities in Heart Health
  – Clinical Analysis of Heart Rate Variability

Refereed Articles

In Press   Prener C. and **Fox B.** "Creating Open Source Composite Geocoders: Pitfalls and Opportunities" *Transactions in GIS*, in press.

In Press   **Fox B.**, Trolard A., Simmons M., Meyers J.E., and Vogel M. "Assessing the differential impact of vacancy on criminal violence in the city of St. Louis, MO." *Criminal Justice Review*, in press.

2020   Mody A., Pfeifauf K., Bradley C., **Fox B.**, Hlatshwayo M., Ross W., Sanders-Thompson V., Joynt K., Reidhead M., Schootman M., Powderly W. and Geng E. "Understanding Drivers of COVID-19 Racial Disparities: A Population-Level Analysis of COVID-19 Testing among Black and White Populations" *Clinical Infectious Diseases*

2020   Reno H., **Fox B.**, Highfill C., McKee A., Trolard A., Liang S.Y., Stoner B.P., and Meyerson B.E. "The emerging intersection between injection drug use and early syphilis in non-urban areas of Missouri, 2012-2018." *Journal of Infectious Diseases*

2019   Peters-Bergquist E., Trolard A., **Fox, B.**, Sebert-Kuhlmann A., Loux T., Liang S.Y., Stoner B.P., and Reno H. "Presenting to the Emergency Department for Sexually Transmitted Disease Care; A Spatial Analysis" *Sexually Transmitted Diseases*

Presentations

Fox, B. and C. Prener. "Everyday Civic Participation: Sociospatial Variation in Non-Emergency Requests for Service in St. Louis, MO." Poster for Geo-Resolution 2019 (April, 2019, St. Louis, MO). Also Presented at the Midwest Sociological Society's Annual Meeting (April, 2019, Chicago, IL)

Fox, B. "Strength in Late Life: The Influence of Resilient Behavior on Longevity" Poster for the 19th Annual Friedman Lecture & Awards (April, 2019, St. Louis, MO).

Fox, B. "A Spatial Exploration of the Sexual Healthcare Landscape and Utilization in St. Louis" Poster for the 12th Annual Institute for Public Health Conference (October, 2019, St. Louis, MO).

Fox, B. and M. Simmons. "Where Guardianship Wanes: Vacancy and Crime in St. Louis" Presentation for the Patient Research Advisory Board at Washington University School of Medicine in St. Louis (August, 2020, St. Louis, MO).

Fox, B. "An Open Stack for Open Data" Presentation for the St. Louis Big Data IDEA Meetup (November, 2020, St. Louis, MO).

Fox, B., A. Trolard, J. Myers and M. Vogel "Vacancy and Violence" Presentation for the St. Louis Vacancy Collaborative (February, 2021, St. Louis, MO).

Software   **R Packages**

2020   **B. Fox** hl7r: *An HL7 Parser for R*, on GitHub.

2020   Prener, C., C. Revord and **B. Fox** areal: *Methods for Areal Weighted Interpolation of Geographic Data*, on CRAN and GitHub.

2019   Prener, C. and **B. Fox** censusxy: *Geocoding data.frames Using the Census Geocoder*, on CRAN and GitHub.

2019   Prener, C. and **B. Fox** gateway: *Working with spatial data from St. Louis*, on GitHub.

2019   Prener, C. and **B. Fox** stlcsb: *Tidy Manipulation of Non-Emergency Service Request Data in the City of Saint Louis, MO.*, on CRAN and GitHub.

Teaching

2019	Teaching Assistant, Introduction to GIS	Saint Louis University
	Tutor, Introduction to Biostatistics	Saint Louis University
2018	Tutor, Introduction to Sociology	Saint Louis University

Community

2019 – Present	St. Louis Regional Data Alliance
2019 – Present	St. Louis Vacancy Collaborative
2019 – Present	Cardiff/Violence Prevention Committee
2019 – Present	OpenSTL - A Code for America Brigade