

# Branson Fox

Data Scientist  
Washington University School of Medicine

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## Education

2020

### **Saint Louis University**

B.A., Sociology

Concentration in Urbanization, Immigration and Demography

Minor in Computational Geospatial Science

## Research & Professional Experience

2020 – Present

Data Engineer

University of Missouri Saint Louis

- Regional Data Alliance Full Stack
- AWS, Docker, Caddy, Airflow, Python, Postgres

2018 – Present

Data Scientist

Washington University in St. Louis

- Sexually Transmitted Diseases
- Violence Prevention
- Community Health

2017 – Present

PrenerLab

Saint Louis University

- Software Development
- Spatial Econometrics
- Advanced Spatial Methods

2019

GIS Analyst

University of Missouri Saint Louis

- Statewide Needs Assessment
- Advanced Data Scraping

2018

GIS Intern

Washington University in St. Louis

- Mapping Violence Prevention Efforts in St. Louis

2018

Heart Rate Variability Lab

Washington University in St. Louis

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

## Refereed Articles

- In Press      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*, in press.
- 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).

## 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 Tutor, Introduction to Biostatistics	Saint Louis University 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