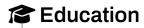
# CHRISTOPHER PRENER

# Ithaca, New York

I am data scientist passionate about building real world evidence data and software products that accelerate the production of insights. I specialize in health disparities research, geospatial mapping and analyses, and data acquisition. I am an open science advocate and an avid R programmer with expertise in data processing, visualization, and communication as well as open source research software engineering.



2015 Northeastern University

Poston, MA

Ph.D. in Sociology

2008 • St. Lawrence University

Canton, NY

B.A. in Sociology and History
Honors, Magna Cum Ladue, Phi Beta Kappa

# 🖨 Professional Experience

2024 Director, RWE Digital Platforms

Pfizer, Inc.

- Established data and analytic platform onboarding procedures for RWE Scientists
- Developed 2 software packages for integrating social determinants of health data with real world data sources

# 2022 • Director, Vaccines RWE Biocurator Scientist Pfizer, Inc.

- Created a first-in-industry platform for integrating two states' COVID vaccine registries with closed claims and mortality data, representing nearly 35 million lives
- Led spatial epidemiology studies to identify health disparities in Lyme disease as well as influenza, COVID and meningococcal vaccination

#### 2016 Assistant Professor, Sociology

St. Louis, MO

Saint Louis University

- Taught courses on statistics, spatial data analysis, and health disparities, winning 4 teaching and mentoring awards
- Maintained a 2 year long open source COVID-19 <u>data</u> <u>project</u>, <u>website</u>, and <u>newsletter</u> highlighting outcomes and spatial patterns in Missouri



### **III** Connect

- <u> chris.prener@gmail.com</u>
- chris-prener.github.io
- github.com/chris-prener
- Google Scholar
- in LinkedIn

# Skills

- -Statistical analysis, including multivariable, multi-level, and spatial modeling using R
- Qualitative data collection and analyses for ethnographic field work and interview data
- -Data acquisition, including via web scraping and API access
- -Geospatial data management and creation as well as map production and data visualization in R, leaflet, ArcGIS, and QGIS
- -Interactive report development with Quarto and RMarkdown
- -Advanced R programming and package development
- -Project management with Git and GitHub

# 2015 Non-Tenure Track Instructor, Sociology

St. Louis, MO

Saint Louis University

• Built a student research team focused on creating novel data sets to address social science research questions in St. Louis

 Launched a data science seminar series to provide training in R, RMarkdown, Git, and other open science tools that served 30-50 learners per year

#### 2012 • Research Assistant

Boston, MA

Northeastern University, Institute of Urban Health Research

- Devised iPad-based data collection tools for interviewing and psychometric testing to accelerate data analysis in an NIHfunded R01 study with 300 participants
- Established standardized procedures for medical record data reviews and electronic health records data integrations

#### 2008 • Teaching Assistant

Boston, MA

Northeastern University

- Taught 2 sections (50+ students) of introductory statistics and 1 section (40+ students) of an urban sociology course as the instructor of record from 2011 to 2012
- Supported instructors' teaching goals in four classes with 50 to 500 students per course for an addition 6 courses for 2008 to 2011

## R Package Portfolio

- -<u>areal</u> areal weighted interpolation
- biscale bivariate mapping with ggplot2
- -<u>censusxy</u> batch geocoding with the U.S. Census Bureau API (*GitHub only*)
- -<u>qualmap</u> opinionated approach qualitative GIS in R
- -testDriveR data and a RMarkdown template for teaching

### **Selected Publications**

2022 Medicine at the Margins: EMS Workers in Urban America

Fordham University Press Prener, C.

**Publisher** 

**Excess mortality in the United States in 2020: Forecasting and anomaly detection.** 

American Journal of Infection Control 49.9: 1189-1190. Wiemken, T. L., et al.

 Measuring the Effect of Place, Socioeconomic Status, and Racism on Coronary Heart Disease: Recent Trends and Missed Opportunities.

Current Epidemiology Reports 8.4: 190-199.

Prener, C., S. Gebauer, and K. L. Gilbert. Pull Text

2021 • SARS-CoV-2 screening testing in schools for children with intellectual and developmental disabilities.

Journal of Neurodevelopmental Disorders 13.1: 1-11. Sherby, M. R., et al.

### **All Publications**

See <u>my website</u> for a full list of Peer reviewed publications