Ran Li

♀ github.com/ran-codes

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Experience

Data Scientist Urban Health Collaborative Feb 2023 - Present

- Spearheaded the development of an integrated research infrastructure that streamlines data management, provenance tracking, and cross-core interoperability (administrative, research, training, and engagement)
- Leveraged interdisciplinary engineering expertise in web development to enhance visibility of complex data insights
- Developed R packages to strengthen research reproducibility and implemented modern data warehousing to optimize data pipeline efficiency

Analytics Engineer

Urban Health Collaborative

Feb 2022 - Feb 2023

- Designed and developed data warehousing systems and user interfaces for the SALURBAL and HCUP projects
- Served as direct supervisor for a web development team and led data/metadata standardization working groups
- · Implemented scalable data infrastructure solutions for multi-core research operations

Data Analyst

Urban Health Collaborative

Mar 2020 - Jan 2022

- Developed data-driven web applications using R Shiny, React.js, and Next.js for COVID-19 data visualization
- Built ETL pipelines to process and transform large-scale health datasets
- Created interactive dashboards that enhanced data accessibility for research teams and stakeholders

Research Assistant

Urban Health Collaborative

Nov 2018 - Mar 2020

- Applied Mixed Models to analyze health outcome scaling across US Metropolitan Areas
- Conducted comprehensive data analysis, visualization, and manuscript preparation for peer-reviewed publications
- Collaborated with interdisciplinary research teams on urban health initiatives

Education

M.S. in Biostatistics Sep 2018 - Mar 2020

Drexel Philadelphia, Cumulative Thesis: Acknowledging Uncertainty in the Association Between PM2.5 and Life

UniversityPA GPA: 4.0 Expectancy

B.S. in Biotechnology/Bioinformatics

Rutgers University New Brunswick, NJ

Sep 2013 - Dec 2015

Cumulative GPA: 3.4

Skills

Programming Languages: • R, 🔮 Python, 🛂 JavaScript / 🟗 TypeScript, 😈 HTML / 🗟 CSS

Data Science & Analytics: R Packages, Shiny, Quarto, DBT, DuckDB, Mixed Models, Statistical Analysis

Web Development: React.js, Next.js, Svelte.js, Node.js, Azure Functions

Tools and Platforms: Git, GitHub, Notion, Obsidian, Linux

Publications

P1 findSVI: an R package to calculate the Social Vulnerability Index at multiple geographical levels Xu H, Ran Li, Bilal U

Journal of Open Source Software, 2024

P2 Area-Level Social Vulnerability and Severe COVID-19: A Case-Control Study Using Electronic Health Records

Mullachery PH, Bilal U, <u>Ran Li</u>, McClure L *Journal of Urban Health, 2024*

P3 Heterogeneity in Disparities in Life Expectancy Across US Metropolitan Areas

Purtle J, <u>Ran Li</u>, Diez Roux A, Bilal U, Mullachery PH, Schnake-Mahl A *Epidemiology*, 2022

P4 Inequities in spatial accessibility to COVID-19 testing in 30 large US cities

Mullachery PH, <u>Ran Li</u>, Melly S, Kolker J, Diez Roux A, Barber S, Bilal U *Social Science & Medicine, 2022*

P5 COVID-19 Outcomes Among the Hispanic Population of 27 Large US Cities, 2020-2021

De Ramos IP, Lazo M, Schnake-Mahl A, <u>Ran Li</u>, Martinez-Donate A, Diez Roux A, Bilal U *American Journal of Public Health*, 2022