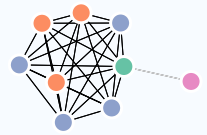



LIZ ROTEN

I work at the intersection of planning and analysis in regional government. I specialize in geospatial analysis and visualization and have considerable experience in R package development, using aggregated location-based services (LBS) analysis to research regional parks visitors, and building interactive data visualization tools for housing, parcel, and ACS data.




EDUCATION

2018
|
2014




- **B.A., Geography, (Data Science, Community and Global Health)**
Macalester College  St. Paul, MN

INDUSTRY EXPERIENCE

current
|
2018

- **Associate Data Scientist**
Metropolitan Council  St. Paul, MN
 - Data scientist for Community Development research team and Metropolitan Transportation Services research and modeling team
 - Started as research intern

SELECTED PROJECTS AND TALKS

- **Who is a local? Using aggregated cell phone location data to research regional parks visitors¹**
Metropolitan Council  St. Paul, MN
 - Talk and workshop for students on using aggregated location-based services (LBS) data to gain insights on regional parks visitors
- **A brief introduction to R packages and package development²**
Metropolitan Council  St. Paul, MN
 - Introduction to the R package I wrote for the Metropolitan Council, `councilR`.
 - I review the anatomy of an R package, highlight a few package features, and provide an overview of how to use GitHub for collaboration at the Council.
- **Greenhouse Gas Emissions from Passenger and Commercial Transportation³**
Metropolitan Council  St. Paul, MN
 - Independently developed technique for estimating greenhouse gas emissions from commercial and passenger vehicles
 - Method uses novel Location-Based Services and GPS data

View this CV online with links at
lizroten.info/cv

CONTACT



roten.elizabeth@gmail.com

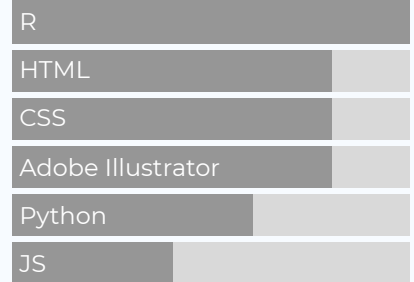
 LizRoten

 github.com/eroten

 lizroten.info

 [linkedin.com/in/eroten](https://www.linkedin.com/in/eroten)

TECHNICAL SKILLS



Source code is available on
github.com/eroten/cv.

Last updated on 2020-07-31.



SELECTED DATA SCIENCE WRITING

- **Finding the perfect sock pattern with ravelRy⁵**
lizroten.info/blog
 - Using Ravelry's API to find just the right sock pattern
- **Visualizing mental health data with ggplot2⁶**
lizroten.info/blog
 - Visualization project using my own daily mental health data
 - Designed both static infographic and animated plots
- **Housing Density in US Cities⁷**
lizroten.info/blog
 - Examining residential zoning in Pittsburgh, Austin, and Boston
- **Fisk's 'Mississippi Meander' in R⁸**
lizroten.info/blog
 - A few maps inspired by Harold Fisk's 1944 geological investigation

I blog about data science and visualization on my blog
lizroten.info/blog.⁴



LINKS

- 1: https://lizroten.info/talks/streetlight_locality_workshop/streetlight_locality_workshop.html
- 2: https://lizroten.info/talks/councilr/inst/presentations/a_brief_introduction/a_brief_introduction#1
- 3: https://rpubs.com/lizroten/metroclimate_method_on_road
- 4: <https://lizroten.info/blog>
- 5: <https://lizroten.info/blog/posts/finding-the-perfect-sock-pattern-with-ravelry/>
- 6: <https://lizroten.info/blog/posts/2019-08-31-emoods/>
- 7: <https://lizroten.info/blog/posts/housing-density-in-us-cities/>
- 8: <https://lizroten.info/blog/posts/2019-10-27-fisk-s-mississippi-river-meander-in-r/>