ROBERT FRANSSEN
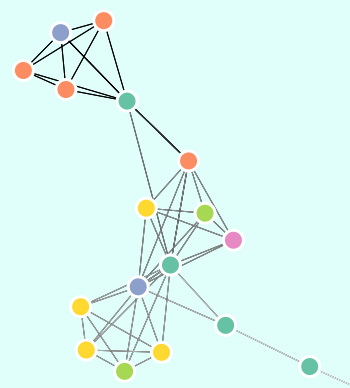
I have made visualizations viewed by hundreds of thousands of people[1], sped up query times for 25 terabytes of data by an average of 4,800 times[2], and built packages for R[3] that let you do magic[4].

🎓 EDUCATION

2021
|
2019

● **M.Sc., Data Science and Analytics (in-progress)**
University of Missouri 📍 St. Louis, MO

· Focused on network models & interactive visualization platforms for electronic health records data
· University Graduate Fellow

2014
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2012

● **M.Sc., Geographic Information Science and Technology**
University of Southern California 📍 Los Angeles, CA

· Thesis: Evaluating spatial changes in the rate of insurgency-violence in Central Africa: the Lord's Resistance Army 2008-2012
· Phi Kappa Phi Academic Honor Society (4.0 GPA)

2008
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2004

● **B.A., Crime, Law, and Justice**
Penn State University 📍 State College, PA

· Minors in International Studies and Political Science
· Education Broad: The American University in Cairo (Fall 2006)

💼 INDUSTRY EXPERIENCE

current
|
2015

● **Senior Data Analyst**
Symphony Retail AI 📍 Mechanicsburg, PA

· Execute statistical analysis and develop targeted marketing algorithms in R and SQL against grocery retail data covering 12m active shoppers. Apply clustering, regression, and other multivariate techniques to analyze consumer trends and perform predictive analysis to drive uplift in customer engagement and revenue
· Received nominations in 2015 and 2016 for the "Encouraging Your Contribution" award for demonstrating values in Entrepreneurship, Integrity, and Collaboration.

2015
|
2012

● **Senior IT Business Analyst**
Glatfelter Insurance Group 📍 York, PA

· Led multidisciplinary projects involving the company's Accounting and Claims Administration systems. Produced in-depth application and reporting requirements, set timelines and expectations with key stakeholders, and re-allocated developmental resources in response to evolving business needs.
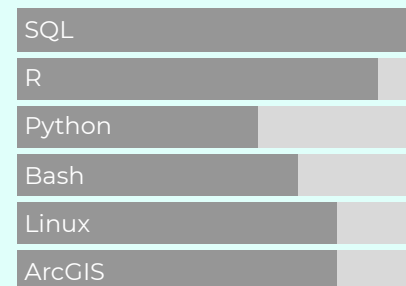

View online at *rjfranssen.io/cv/*

CONTACT

✉ rjfranssen@gmail.com
📷 lochnessbobster
github.com/rjfranssen
🔗 rjfranssen.io
in linkedin.com/in/rjfranssen/

LANGUAGE SKILLS

SQL	
R	
Python	
Bash	
Linux	
ArcGIS	

Made with the R package pagedown.

The source code is available on github.com/rjfranssen/cv.

Last updated 2020-11-17.

2012
|
2010

Commercial Casualty Claims Associate

Nationwide Mutual Insurance Company   📍 Harrisburg, PA

· Interviewed policyholders, claimants, witnesses, and police, to gather
information to settle commercial losses.

2010
|
2008

Personal Markets Claims Associate

Liberty Mutual Insurance Company   📍 Blue Bell, PA

· Investigated bodily injury claims; evaluated patient treatment data,
collaborated with defense counsel, created litigation strategies, attended
trials, and negotiated injury settlements up to $100,000.

✈ INDEPENDENT COURSEWORK

2014
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2014

**Master's Thesis: Evaluating Spatial Changes in the Rate of Insurgency
Violence in Central Africa: The Lord's Resistance Army 2008-2012**

· Analyzed the spatial distribution of LRA-perpetrated armed-conflicts and
performed statistical analysis (heat mapping, regression, difference-in-
differences) to evaluate regional rates of change and correlative
variables.
· Provided brief to the Invisible Children NGO to supplement their
regional initiatives in the Dem. Rep. of Congo.

2013
|
2013

Iraqi Health Metrics Web-map Interface

· Created an interactive web application to demonstrate trends in Iraqi
public health metrics using CartoDB and open-source GIS resources.
Administered an Amazon EC2 instance and published embedded web
applications using ArcGIS Server and API.

2013
|
2013

Elephant Habitat Risk Modeling

· Created several Arc-based tools to track risks to elephant populations in
the Dem. Rep of Congo.
· Wrote Python scripts in ArcPy, created functions for logging poaching
activities, and designed algorithms to execute location-density analyses
and automatically re-zone elephant habitats to denote varying levels of
risk.
· Provided model framework to the International Union for the
Conservation of Nature (IUCN) in Nairobi.

2013
|
2013

Biological Stream Survey Assessment

· Performed regression analysis on the distribution of Asiatic Clams in
Maryland correlating their presence with concentrations of NO_2 and
Nitrates using Maryland Biological Stream Survey data.

🌐 SPEAKING ENGAGEMENTS

2014
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2014

● **Evaluating spatial changes in the rate of insurgency-violence in Central Africa: the Lord's Resistance Army 2008-2012**

Los Angeles, CA

2013
|
2013

● **Modeling Changes in the Frequency of Armed-conflict Events Relative to the Regional Distribution of High-frequency Radios Composing an Early-warning Network**

Addis Ababa, Ethiopia

📍 AfricaGIS 2013 / GSDI 14, Global Geospatial Conference

📖 ACADEMIC WRITINGS

2014
|
2014

● **Evaluating spatial changes in the rate of insurgency-violence in Central Africa: the Lord's Resistance Army 2008-2012**

USC Digital Library

📖 ACTIVITIES AND INTERESTS

● **Researching the Application of Machine Learning Techniques for Drowning Detection**

· Using Tensorflow, I re-trained Google's MobileNet image classification model on a collection of images depicting active- and passive-drowning events. With a successful proof of concept, I'm expanding my training dataset to include a more diverse set of images so I can document my experience researching an AI-based solution for drowning detection.

● **Environment Science**

● **Spatial Economics**

2018
|
2014

● **Swiming Instructor**

Harrisburg, PA

📍 East Shore YMCA

· I volunteered twice a week and teach Polliwogs, Guppies, and Adult-humans how to swim.

· I was awarded "Adult Volunteer of the Year" in 2016.

🔗 LINKS

1: https://www.nytimes.com/interactive/2016/08/26/us/college-student-migration.html
2: https://livefreeordichotomize.com/2019/06/04/using_awk_and_r_to_parse_25tb/
3: https://github.com/nstrayer/shinysense
4: http://nickstrayer.me/dataDayTexas/