

FILIPPO FRANCHINI

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

Currently searching for a position that allows me to build tools leveraging a combination of visualization, machine learning, and software engineering to help people explore and understand their data in new and useful ways.

EDUCATION

- 2020
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2015
- **PhD. Candidate, Biostatistics**
Vanderbilt University 📍 Nashville, TN
 - Working on Bayesian network models & interactive visualization platforms
 - University Graduate Fellow
 - **B.S., Mathematics, Statistics (minor C.S.)**
University of Vermont 📍 Burlington, VT
 - Thesis: An agent based model of Diel Vertical Migration patterns of *Mysis diluviana*

SELECTED POSITIONS

- 2020
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2015
- **Graduate Research Assistant**
TBILab (Yaomin Xu's Lab) 📍 Vanderbilt University
 - Primarily working with large EHR and Biobank datasets.
 - Developing network-based methods to investigate and visualize clinically relevant patterns in data.
 - **Data Science Researcher**
Data Science Lab 📍 Johns Hopkins University
 - Building R Shiny applications in the contexts of wearables and statistics education.
 - Work primarily done in R Shiny and Javascript (node and d3js).
 - **Data Journalist - Graphics Department**
New York Times 📍 New York, New York
 - Reporter with the graphics desk covering topics in science, politics, and sport.
 - Work primarily done in R, Javascript, and Adobe Illustrator.

SELECTED WRITING

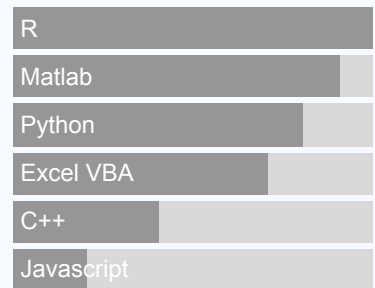
- 2019
- **[Using AWK and R to Parse 25tb](#)**
LiveFreeOrDichotomize.com
 - Story of parsing large amounts of genomics data.
 - Provided advice for dealing with data much larger than disk.
 - Reached top of HackerNews.
 - **[The Traveling Metallurgist](#)**
LiveFreeOrDichotomize.com
 - Pure javascript implementation of traveling salesman solution using simulated annealing.
 - Allows reader to customize the number and location of cities to attempt to trick the algorithm.
 - **[The Great Student Migration](#)**
The New York Times
 - Most shared and discussed article from the New York Times for August 2016.



CONTACT

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[in LinkedIn](#)
[GitHub](#)
[ResearchGate](#)

CODING SKILLS



SOFTWARE

ascr: (contributor) Maps sound sources using fixed microphone arrays. **dshim**: (author) Fits two-stage density surface Hurdle models and automates labour-intensive GIS routines. **adas**: (author, private) Maps sound sources using moving microphone arrays.

LANGUAGES

Italian: Native
English: Fluent
German: Fluent
French: Proficient

Made w/ [pagedown](#).
Source code:
github.com/nstrayer/cv.
Last updated on 2020-05-09.