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.
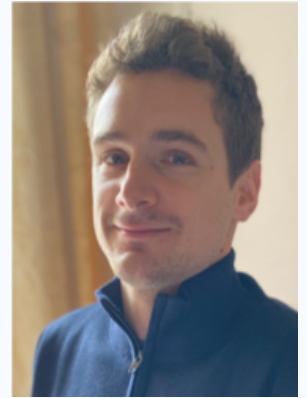
🎓 EDUCATION

2020 | 2015

PhD. Candidate, Biostatistics
Vanderbilt University 📍 Nashville, TN

- Working on Bayesian network models & interactive visualization platforms
- University Graduate Fellow

2015 | 2011

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 | 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.

2018 | 2017

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).

2016

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.
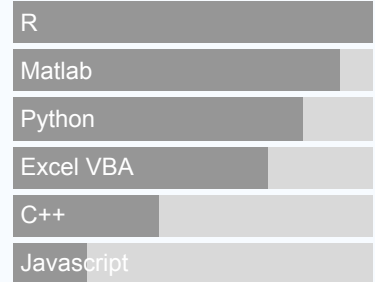
📰 SELECTED WRITING

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.

2017

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.

2016

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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- ✉️ filippo.franchini@outlook.com
- 💼 LinkedIn
- 🐙 GitHub
- ℝ ResearchGate

CODING SKILLS

- R
- Matlab
- Python
- Excel VBA
- C++
- Javascript

SOFTWARE

cv: (contributor) Creates awesome data-driven cv's. **ascr**: (contributor) Maps sound sources using fixed microphone arrays. **dshm**: (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 on my **GitHub**.*
Last updated on 2020-05-09.