



# 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

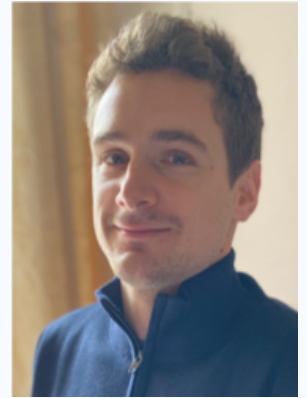
- 2020  
|  
2015
- **PhD. Candidate, Biostatistics**  
Vanderbilt University  Nashville, TN
    - Working on Bayesian network models & interactive visualization platforms
    - University Graduate Fellow
  - **B.S., Mathematics, Statistics (minor C.S.)**  
University of Vermont  Burlington, VT
    - 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

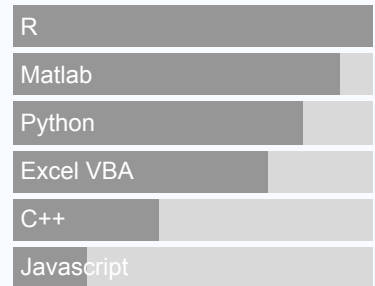
- 2019
- **[Using AWK and R to Parse 25tb](#)**  
LiveFreeOrDichotomize.com
    - Story of parsing large amounts of genomics data.
    - Provided advice for dealing with data much larger than disk.
    - Reached top of HackerNews.
- 2017
- **[The Traveling Metallurgist](#)**  
LiveFreeOrDichotomize.com
    - 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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 [in LinkedIn](#)  
 [GitHub](#)  
 [ResearchGate](#)

## CODING SKILLS



## 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.