










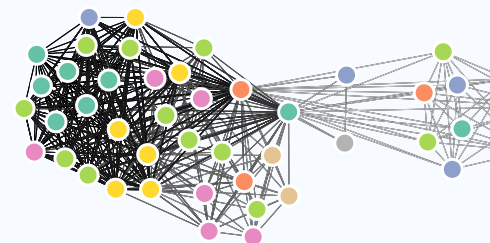
# DANIEL AMIEVA RODRIGUEZ

## (BETA FILE)

Im just a mizcli

### EDUCATION

- **High School Diploma**  
Bishop Seabury Academy  Kansas, USA
- **Diploma Data Analytics with Python**  
Emtech  Cdmx, MX
- **Diplomado Historia Mundial**  
MIDE  Cdmx, MX
- **Diplomado Historias Comparadas de Desarrollo**  
MIDE  Cdmx, MX
- **Diplomado Historia de Mexico**  
MIDE  Cdmx, MX
- **Diplomado .....**  
 Cdmx, MX
- 2020  
|  
2015  
• **BSc Economics**  
UNAM  Cdmx, MX
  - Focused on network models & interactive visualization platforms for electronic health records data
  - University Graduate Fellow
- 2015  
|  
2011  
• **Data Science Summer School**  
Beihang University  Beijing, CH
  - Thesis: An agent based model of Diel Vertical Migration patterns of Mysis diluviana
- 2013  
|  
2012  
• **Diploma Data Science**  
UNAM  Cdmx, MX
  - Independently analyzed and constructed statistical models for large data sets pertaining to carbon decomposition rates.



View online  at  
[dar4datascience.github.io](https://dar4datascience.github.io)

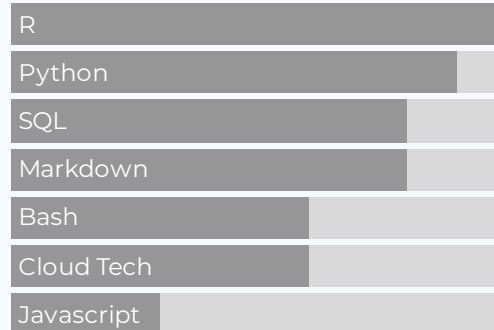
### CONTACT

 [amievarodriguez.daniel@gmail.com](mailto:amievarodriguez.daniel@gmail.com)

 [github.com/dar4datascience](https://github.com/dar4datascience)

 [linkedin.com/in/dar-4-ds](https://linkedin.com/in/dar-4-ds)

### LANGUAGE SKILLS



Made with the R package [pagedown](#).

The source code is available on  
[github.com/dar4datascience/Curriculum-Vitae](https://github.com/dar4datascience/Curriculum-Vitae).

Last updated on 2022-08-07.







## INDUSTRY EXPERIENCE

- Current  
|  
2020
- **Software Engineer**  
Remote 📍 RStudio
    - Helping make programming web applications with R easier and more beautiful on the Shiny team
- 2016  
|  
2016
- **Data Journalist - Graphics Department**  
New York, New York 📍 New York Times
    - Reporter with the graphics desk covering topics in science, politics, and sport.
    - Work primarily done in R, Javascript, and Adobe Illustrator.
- 2015  
|  
2015
- **Engineering Intern - User Experience**  
Burlington, VT 📍 Dealer.com
    - Built internal tool to help analyze and visualize user interaction with back-end products.
- 2015  
|  
2015
- **Data Science Intern**  
Burlington, VT 📍 Dealer.com
    - Worked with the product analytics team to help parse and visualize large stores of data to drive business decisions.
- 2015  
|  
2014
- **Data Artist In Residence**  
Carpinteria, CA 📍 Conduce
    - Envisioned, prototyped and implemented visualization framework in the course of one month.
    - Constructed training protocol for bringing third parties up to speed with new protocol.
- 2014  
|  
2014
- **Software Engineering Intern**  
Carpinteria, CA 📍 Conduce
    - Incorporated d3.js to the company's main software platform.





## RESEARCH EXPERIENCE

- Current  
|  
2015
- **Graduate Research Assistant**  
Vanderbilt University 📍 TBILab (Yaomin Xu's Lab)
    - 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**  
Johns Hopkins University  Data Science Lab
    - Building R Shiny applications in the contexts of wearables and statistics education.
    - Work primarily done in R Shiny and Javascript (node and d3.js).
- 2015  
|  
2013
- **Undergraduate Researcher**  
University of Vermont  Rubenstein Ecosystems Science Laboratory
    - Analyzed and visualized data for CATOS fish tracking project.
    - Head of data mining project to establish temporal trends in population densities of *Mysis diluviana* (Mysis).
    - Ran project to mathematically model the migration patterns of Mysis (honors thesis project.)
- 2015  
|  
2015
- **Human Computer Interaction Researcher**  
University of Michigan  LabInTheWild (Reineke Lab)
    - Led development and implementation of interactive data visualizations to help users compare themselves to other demographics.
- 2014  
|  
2013
- **Undergraduate Researcher**  
University of Vermont  Bentil Laboratory
    - Developed mathematical model to predict the transport of sulfur through the environment with applications in waste cleanup.



## TEACHING EXPERIENCE




- 2020
- **Javascript for Shiny Users**  
 RStudio::conf 2020
    - Served as TA for two day workshop on how to leverage Javascript in Shiny applications
    - Lectured on [using R2D3 package to build interactive visualizations](#).
- 2019  
|  
2019
- **Data Visualization Best Practices**  
 DataCamp
    - Designed from bottom up course to teach best practices for scientific visualizations.
    - Uses R and ggplot2.
    - In top 10% on platform by popularity.

I am passionate about education. I believe that no topic is too complex if the teacher is empathetic and willing to think about new methods of approaching task.

- 2019  
|  
2019
- **Improving your visualization in Python**  DataCamp
    - Designed from bottom up course to teach advanced methods for enhancing visualization.
    - Uses python, matplotlib, and seaborn.
- 2018  
|  
2017
- **Advanced Statistical Learning and Inference**  Vanderbilt Biostatistics Department  
Nashville, TN
    - TA and lectured
    - Topics covered from penalized regression to boosted trees and neural networks
    - Highest level course offered in department
- 2018  
|  
2018
- **Advanced Statistical Computing**  Vanderbilt Biostatistics Department  
Nashville, TN
    - TA and lectured
    - Covered modern statistical computing algorithms
    - 4th year PhD level class
- 2017  
|  
2017
- **Statistical Computing in R**  Vanderbilt Biostatistics Department  
Nashville, TN
    - TA and lectured
    - Covered introduction to R language for statistics applications
    - Graduate level class



## SELECTED DATA SCIENCE 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.
- 2018
- **[Classifying physical activity from smartphone data](#)**  RStudio Tensorflow Blog
    - Walk through of training a convolutional neural network to achieve state of the art recognition of activities from accelerometer data.
    - Contracted article.
- 2018
- **[The United States of Seasons](#)**  LiveFreeOrDichotomize.com
    - GIS analysis of weather data to find the most 'seasonal' locations in United States
    - Used Bayesian regression methods for smoothing sparse geospatial data.

- 2017
- A year as told by fitbit**

LiveFreeOrDichotomize.com

    - Analyzing a full years worth of second-level heart rate data from wearable device.
    - Demonstrated visualization-based inference for large data.
- 2017
- MCMC and the case of the spilled seeds**

LiveFreeOrDichotomize.com

    - Full Bayesian MCMC sampler running in your browser.
    - Coded from scratch in vanilla Javascript.
- 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.



## SELECTED PRESS (ABOUT)

- 2017  
|  
2017
- Great paper? Swipe right on the new “Tinder for preprints” app**

Science

    - Story of the app [Paprr](#) made with Jeff Leek and Lucy D’Agostino McGowan.
- 2017  
|  
2017
- Swipe right for science: Papr app is “Tinder for preprints”**

Nature News

    - Second press article for app Papr.



## SELECTED PRESS (BY)

- 2016  
|  
2016
- A Trail of Terror in Nice, Block by Block**

The New York Times

    - Led research effort to put together story of 2016 terrorist attack in Nice, France in less than 12 hours.
    - Work won Silver medal at Malofiej 2017, and gold at Society of News and Design.



## SELECTED PUBLICATIONS, POSTERS, AND TALKS

2015  
|  
2015



### **Asymmetric Linkage Disequilibrium: Tools for Dissecting Multiallelic LD**

📍 Journal of Human Immunology

• Authored with Richard Single, Vanja Paunic, Mark Albrecht, and Martin Maier.