# DANIEL AMIEVA RODRIGUEZ

Im just a mizcli

2020

2015

2015

2011

2013

2012

## **EDUCATION High School Diploma** • Kansas, USA Bishop Seabury Academy Diploma Data Analytics with Python **Q** Cdmx, MX **Emtech** Diplomado Historia Mundial **Q** Cdmx, MX MIDE Diplomado Historias Comparadas de Desarrollo Ocdmx. MX MIDE Diplomado Historia de Mexico OCdmx. MX MIDE Diplomado .....? Ocdmx. MX **BSc Economics Q** Cdmx, MX UNAM · Focused on network models & interactive visualization platforms for electronic health records data · University Graduate Fellow **Data Science Summer School ♀** Beijing, CH Beihang University · Thesis: An agent based model of Diel Vertical Migration patterns of Mysis diluviana

· Independently analyzed and constructed statistical models for large data sets pertaining to carbon decomposition rates.



View this CV online with links at nickstrayer.me/cv/

#### CONTACT

Ocdmx. MX

- amievarodriguez.daniel@gmail.com
- github.com/dar4datascience
- in linkedin.com/in/dar-4-ds

### LANGUAGE SKILLS

R	
Python	
SQL	
Markdown	
Bash	
Cloud Tech	
Javascript	

Made with the R package pagedown.

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

Last updated on 2022-08-07.

I have worked in a variety of roles ranging from journalist to software engineer to data scientist. I like collaborative environments where I can

learn from my neers



Diploma Data Science

UNAM

#### **Software Engineer** Current **♀** RStudio Remote 2020 · Helping make programming web applications with R easier and more beautiful on the Shiny team Data Journalist - Graphics Department 2016 • New York Times New York, New York 2016 · Reporter with the graphics desk covering topics in science, politics, and sport. · Work primarily done in R, Javascript, and Adobe Illustrator. **Engineering Intern - User Experience** 2015 • Dealer.com Burlington, VT 2015 · Built internal tool to help analyze and visualize user interaction with back-end products. Data Science Intern 2015 • Dealer.com Burlington, VT 2015 · Worked with the product analytics team to help parse and visualize large stores of data to drive business decisions. Data Artist In Residence 2015 • Conduce Carpinteria, CA 2014 · 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 **Software Engineering Intern ♀** Conduce Carpinteria, CA 2014 · Incorporated d3.js to the company's main software platform. RESEARCH EXPERIENCE **Graduate Research Assistant** Current TBILab (Yaomin Xu's Lab) Vanderbilt University 2015 · Primarily working with large EHR and Biobank datasets. · Developing network-based methods to investigate and visualize clinically relevant patterns in data. Data Science Researcher 2018 O Data Science Lab Johns Hopkins University 2017 · Building R Shiny applications in the contexts of wearables and

statistics education.

· Work primarily done in R Shiny and Javascript (node and d3js).

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

**Q** 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.

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.

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.

Advanced Statistical Learning and Inference 2018 **♥** Vanderbilt Biostatistics Department Nashville, TN 2017 · TA and lectured · Topics covered from penalized regression to boosted trees and neural networks · Highest level course offered in department **Advanced Statistical Computing** 2018 **♥** Vanderbilt Biostatistics Department Nashville, TN 2018 · TA and lectured · Covered modern statistical computing algorithms · 4th year PhD level class 2017 Statistical Computing in R ♥ Vanderbilt Biostatistics Department Nashville, TN 2017 · 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 **Q** LiveFreeOrDichotomize.com · Story of parsing large amounts of genomics data. · Provided advice for dealing with data much larger than disk. · Reached top of HackerNews. Classifying physical activity from smartphone data 2018 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. The United States of Seasons 2018 **Q** 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. A year as told by fitbit 2017 **Q** LiveFreeOrDichotomize.com · Analyzing a full years worth of second-level heart rate data

from wearable device.

· Demonstrated visualization-based inference for large data.

I regularly blog about data science and visualization on my blog LiveFreeOrDichotomize. 2017

#### MCMC and the case of the spilled seeds

**Q** LiveFreeOrDichotomize.com

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

2017

#### The Traveling Metallurgist

**Q** 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

· Story of the app Papr 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

**Q** Journal of Human Immunology

· Authored with Richard Single, Vanja Paunic, Mark Albrecht, and Martin Maiers.