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
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2015

BSc Economics
UNAM
📍 Cdmx, MX

- Focused on network models & interactive visualization platforms for electronic health records data
- University Graduate Fellow

2015
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2011

Data Science Summer School
Beihang University
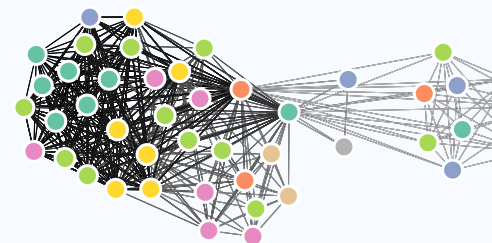📍 Beijing, CH

- Thesis: An agent based model of Diel Vertical Migration patterns of Mysis diluviana

2013
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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

CONTACT

✉ amievarodriguez.daniel@gmail.com

 github.com/dar4datascience

in linkedin.com/in/dar-4-ds

LANGUAGE SKILLS

R	
Python	
SQL	
Markdown	
Bash	
Cloud Tech	
Javascript	
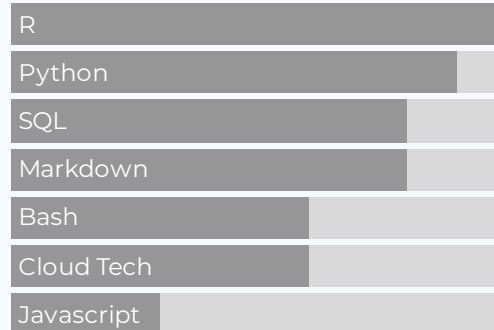
*Made with the R package **pagedown**.*

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

Last updated on 2022-08-07.

💼 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.

Data Science Researcher

2018 | 2017

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 d3js).

Undergraduate Researcher

2015 | 2013

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.)

Human Computer Interaction Researcher

2015 | 2015

University of Michigan　　📍 LabInTheWild (Reineke Lab)

- Led development and implementation of interactive data visualizations to help users compare themselves to other demographics.

Undergraduate Researcher

2014 | 2013

University of Vermont　　　📍 Bentil Laboratory

- Developed mathematical model to predict the transport of sulfur through the environment with applications in waste cleanup.

TEACHING EXPERIENCE

Javascript for Shiny Users

2020

📍 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.

Data Visualization Best Practices

2019 | 2019

📍 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.

Improving your visualization in Python

2019 | 2019

 DataCamp

- Designed from bottom up course to teach advanced methods for enhancing visualization.
- Uses python, matplotlib, and seaborn.

Advanced Statistical Learning and Inference

2018 | 2017

Nashville, TN   Vanderbilt Biostatistics Department

- TA and lectured
- Topics covered from penalized regression to boosted trees and neural networks
- Highest level course offered in department

Advanced Statistical Computing

2018 | 2018

Nashville, TN   Vanderbilt Biostatistics Department

- TA and lectured
- Covered modern statistical computing algorithms
- 4th year PhD level class

Statistical Computing in R

2017 | 2017

Nashville, TN   Vanderbilt Biostatistics Department

- TA and lectured
- Covered introduction to R language for statistics applications
- Graduate level class

📈 SELECTED DATA SCIENCE WRITING

Using AWK and R to Parse 25tb

2019

 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

 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.

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

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
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2017 ● **Great paper? Swipe right on the new 'Tinder for preprints' app**

📍 Science

- Story of the app Papr made with Jeff Leek and Lucy D'Agostino McGowan.

2017
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2017 ● **Swipe right for science: Papr app is 'Tinder for preprints'**

📍 Nature News

- Second press article for app Papr.

🖼 SELECTED PRESS (BY)

2016
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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
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2015

Asymmetric Linkage Disequilibrium: Tools for Dissecting Multiallelic LD

 Journal of Human Immunology

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