

DANIEL AMIEVA RODRIGUEZ

Im just a mizcli

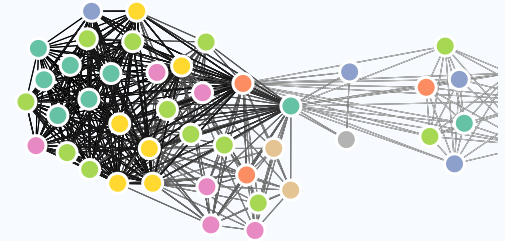


EDUCATION

- **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.



INDUSTRY EXPERIENCE



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

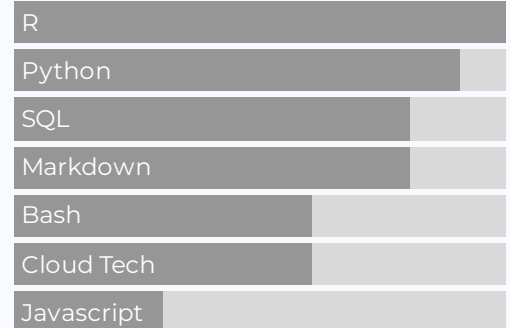
CONTACT

✉ amievarodriguez.daniel@gmail.com

🐙 github.com/dar4datascience

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

LANGUAGE SKILLS

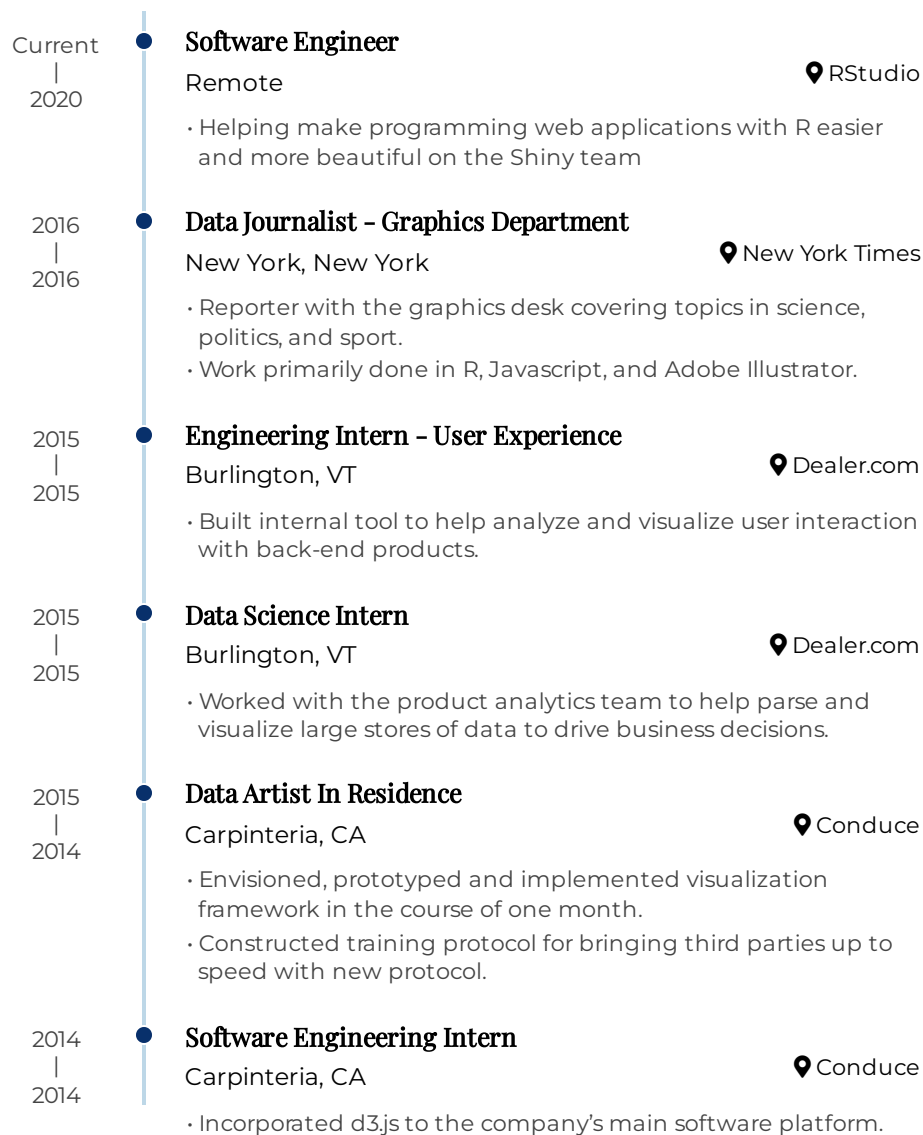


Made with the R package [pagedown](#).

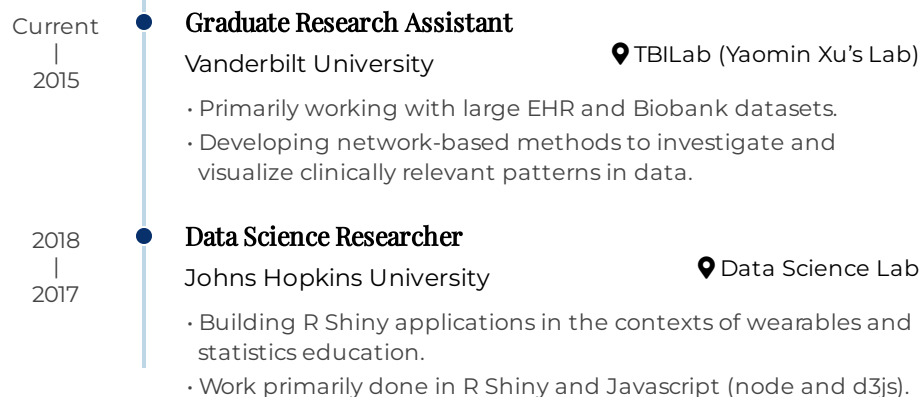
The source code is available [on github.com/nstrayer/cv](https://github.com/nstrayer/cv).

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 peers.



RESEARCH EXPERIENCE



2015
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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
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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
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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
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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
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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.

- 2018
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2017
- **Advanced Statistical Learning and Inference**
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
- 2018
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2018
- **Advanced Statistical Computing**
Nashville, TN  Vanderbilt Biostatistics Department
 - TA and lectured
 - Covered modern statistical computing algorithms
 - 4th year PhD level class
- 2017
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2017
- **Statistical Computing in R**
Nashville, TN  Vanderbilt Biostatistics Department
 - 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.

I regularly blog about data science and visualization on my blog [LiveFreeOrDichotomize](#).

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.