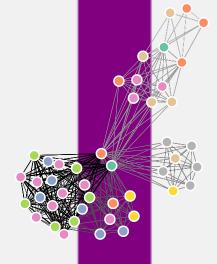
NICK STRAYER

viewed by hundreds of thousands of people⁷, sped up 125 to 130 years of data by an average of 4,80 minuses and built 15 to 15 years of data by an average of 4,80 minuses and built 15 to 15 years of data by an average of 4,80 minuses and built 15 to 15 years of the second of the s I have made v query times f packages for

Currently sear this countries osition that allows me to build n, machine learning, and software some combination



EDUCATION

Current 2015

PhD. Candidate, Biostatistics

Vanderbilt University

Nashville, TN

- · Working on Saves an network models & interactive visualization platfo
- · University Graduate Fellow

View this OV online with links at nickstrayer me/cw/

2015 2011

B.S., Mathematics, Statistics (minor C.S.)

University of Vermont

Burlington, VT

• Thesis Amagent based model of Diel Vertical Migration patterns of Mysis diluvia

RESEARCH EXPERIENCE

Current 2015

Graduate Research Assistant

TBILab (Yaomin Xu's Lab)

Vanderbilt University

- working with large EHR and Biobank da Prima
- www.metwork-based methods to investigat Iv relevant p<mark>atterns in data.</mark> clinica

2018 2017

Data Science Researcher

Data Science Lab

- **Q** Johns Hopkins University
- Buildi pplications in the contexts of we educa
- Work numanily done in R Shiny and Javascript (node and diss)

2015 2013

Undergraduate Researcher

Rubenstein Ecosystems Science Laboratory

University of Vermont

- and visualized data for CATOS fish tracki
- Head ng project to establish tempora trends in population densit liluviana (Mysis).
- oject to mathematically model the migration patterns i (hono

CONTACT

☑ nick.strayer@gmail.com

✓ NicholasStraver

github.com/nstrayer

6 nicks never me

in linked in com/in/hickstrayer

LANGUAGE SKILLS

R			
Javascript	(d3.js)		
C++			
Python			
Bash			
SQL			
AWK			

Ma<mark>de with the R package</mark> pagedown

The source code is a vailable on nstrayer/cv.

Last updated on 2021-11-17.

Human Computer Interaction Researcher 2015 **Q** University of Michigan LabInTheWild (Reineke Lab) 2015 and implementation of interactive data wise alizations · Led d are themselves to other demo to hel **Undergraduate Researcher** 2014 University of Vermont Bentil Laboratory 2013 Devel ped mather<mark>natical model to predict the transport of so</mark> through the environment with applications in was Research Assistant 2013 University of Vermont Adair Laboratory 2012 · Independently amplyzed and constructed statistic is pertaining to carbon decomposition rate **INDUSTRY EXPERIENCE** Data Journalist - Graphics Department 2016 New York, New York New York Times 2016 Repor er with the graphics desk covering topics in science, po sport. umanily done in R, Javascript, and Adobe II Work Engineering Intern - User Experience 2015 Burlington, VT Dealer.com 2015 · Built i tomal tool to help analyze and visualize use with back-Data Science Intern 2015 Burlington, VT Dealer.com 2015 with the product analytics team to help p to drive business decisions. large s Data Artist In Residence 2015 O Carpinteria, CA Conduce 2014 ned, proton/ped and implemented visualization frames/ork in the Envisi course of one month. ucted training protocol for bringing third parties up to speed with Const new p **Software Engineering Intern** 2014 O Carpinteria, CA Conduce 2014 rated disasto the company's main software Incorp

I have work to be ty of roles ranging from the to software er to software environment to the type of roles at a scientist. I like the type of roles at a scientist. I like the type of roles at a scientist. I like the type of roles are type of roles at a scientist. I like the type of roles are type of

TEACHING EXPERIENCE

2020 • Javascript for Shiny Users

RStudio::conf 2020

- Served as 14 to 150 o day workshop on how to leve as a lavasor pt in Shiny applications
- Lectured on using R2D3 package to build interact we visualizations.⁵

2019 • Data Visualization Best Practices

DataCamp

- Designation by tom up course to teach best pressions cientific visualizations.
- Uses R and ggplot2.
- In top 10% or pratform by popularity.

• Improving your visualization in Python

DataCamp

2019

2019

2018

2017

2018

2018

2017

2017

- Designation and tom up course to teach advanced medicals for enhanced medicals ation.
- · Uses rython, matt lotlib, and seaborn.

• Advanced Statistical Learning and Inference

Vanderbilt Biostatistics Department

Nashville, TN

- · TA and lectured
- Topics now as a penalized regression to boos as a meaning neural networks
- · Highest level course offered in department

Advanced Statistical Computing

Vanderbilt Biostatistics Department

Nashville, TN

- · TA and lectured
- · Covered to the catistical computing algorithms
- · 4th year PhD level class

Statistical Computing in R

Vanderbilt Biostatistics Department

Nashville, TN

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

SELECTED DATA SCIENCE WRITING

2019 Using AWK and R to Parse 25tb⁷

LiveFreeOrDichotomize.com

- Story <mark>or parsing lar</mark>ge amounts of genomics data.
- · Provided advice for dealing with data much larger than disk
- · Reached top of HackerNews.

I am passic education. It is to topic is too compathetic empathetic about new approachir

I regularly last a science an on my blog LiveFr pmize.

Classifying physical activity from smartphone data⁸ 2018

RStudio Tensorflow Blog

- aining a convolutional neural network to achieve state · Walk of the on of activities from accelerometer data
- · Contr

The United States of Seasons⁹ 2018

LiveFreeOrDichotomize.com

- s of weather data to find the most 'seasonal' locations in United
- avestan reg<mark>ression methods for smoothing sparse geos</mark>patial • Used data.

A year as told by fitbit 10 2017

LiveFreeOrDichotomize.com

- ng a full years worth of second-level heart rate data from Analyz weara
- led visualization-based inference for large data

MCMC and the case of the spilled seedsⁿ 2017

LiveFreeOrDichotomize.com

- wasian MCMC sampler running in your brow
- · Codec Transcrant h in vanilla Javascript.

The Traveling Metallurgist¹² 2017

LiveFreeOrDichotomize.com

- · Pure j plementation of traveling salesr and solution using simul
- · Allows reader to oustomize the number and location of other to attempt the algorithm. to tric

■ SELECTED PRESS (ABOUT)

2017 2017

Great paper? Swipe right on the new 'Tinder for preprints' app¹³ Science

Story

the app 2a pr¹⁴ made with Jeff Leek and L<mark>acy D'Agostin</mark>o

2017 2017

Swipe right for science: Papr app is 'Tinder for preprints' 5

Nature News

· Second press and e for app Papr.

2016 2016

The Deeper Story in the Data¹⁶

University of Vermont Quarterly

ost graduation and the power Story

■ SELECTED PRESS (BY)

2016 2016 The Great Student Migration¹⁷

The New York Times

· Most named and discussed article from the New York Times to August 2016.

2016 2016 Wildfires are Getting Worse, The New York Times⁴

The New York Times

- alvsis and modeling of fire patterns and tre
- regular on with NASA and USGS · Data i

2016 2016 Who's Speaking at the Democratic National Convention?¹⁹

The New York Times

CSPAN records to figure out who talked and past • Data s conve

2016 2016 Who's Speaking at the Republican National Convention?20

The New York Times

ame data se<mark>raping techniques as Who's Sp</mark>eaking at al Used Democratic National Convention?

2016 2016 A Trail of Terror in Nice, Block by Block²¹

The New York Times

- earch effort to put together story of 2016 terrorist attack in Nice, in less than 12 hours. France
- edal at Malofiej 2017, and gold a Work Desig



■ SELECTED PUBLICATIONS, POSTERS, AND TALKS

2020

Building a software package in tandem with machine learning methods research can result in both more rigorous code and more rigorous research

ENAR 2020

- Invited talk in Homan Data Interaction section.
- · How a d why building an R package can benefit i resear

2020

Stochastic Block Modeling in R, Statistically rigorous clustering with rigorous code²²

RStudio::conf 2020

- talk about new sbmR package²³.
- on how soil ware development and methodological less arch can Focus e both borefit when done in tandem. impro

2019 2019	•	Charge Reductions Associated with Shorter Septic Shock ²⁴ Chest	
		· Author Mark Market Self, MD MPH; Da MD, Market Market J. Ward, MD, PhD, MBA; Todd W. Market MSc; Matthew W. Semler	Nathar I Shaoilo M <mark>D, MPH;</mark>
2019 2019		Multimorbidity Explorer A shiny app for e data ²⁵ RStudio::conf 2019	
2019 	•	Contributes Authored with Yaomin Taking a network view of EHR and Biobank multivariate patterns ²⁶	
2019		Vanderbilt Biostatistics Seminar Series University Wilder ninar series.	
2019	•	Patient-specific risk factors independently Myelodysplastic Syndromes in an unbiased Under-Review (copy available upon requerable by the second systems of	review of EHR records est.) rel subgrant passon pastients with
2019	•	Patient specific comorbidities impact overa Under-Review (copy available upon reque Bayes and the same analysis used to find rob patient specific mutations. Analysis along a genetic mutation my di	est.) ust novel subgroups of
2018 2018	•	R timelineViz: Visualizing the distribution of studies Under-Review (copy available upon reque	
		· Authorized with Alex Sunderman of the Vand Epidemiology	
2017 2017	•	· Authorodowin Alex Sunderman of the Vand	derbilt Department of al Networks ²⁷ m us data success using neural

An Agent Based Model of Mysis Migration²⁸
International Association of Great Lakes Research Conference
· Authorism Mysis diluviana in the Great Lakes

Declines of Mysis diluviana in the Great Lakes
Journal of Great Lakes Research
· Authorism Mysis diluviana and Jason Stockwell.



- 1. https://www.nytimes.com/in_teractive/2016/08/26/us/college-studentamia_ration .html
- 2. https://livefreeo.dichotomize.com/2019/06/04/using_awk_ard_r_to_parse_25tb/
- 3. https://github.com/nstrayer/shinysense
- 4. http://nickstrayer.me/datalDayTexas/
- 5. http://nickstrayer.me/is/ishiny_r2d3/slides
- 6. https://livefreeordichotomize.com/
- 7: https://livefreeordichotomize.com/2019/06/04/using_awk_and_acto_parse_25tb/
- 8: https://blogs.rst.udio.com/tensorflow/posts/2018-07-17-activity-detection
- 9. https://livefreeordichotomize.com/2018/02/12/the-united-states-of-seasons/
- 10: https://livefreeo.gichotomize.com/2017/12/27/a-year-as-told-by-fitbi
- 11: https://livefreeo.dichotomize.com/2017/10/14/mcmc-and-thecase-of-the-spilled-seeds/
- 12: https://livefreeo.glichotomize.com/2017/09/25/the-traveling-metallurgist
- 13: https://www.sciencemag.org/news/2017/06/great-paper-swipe-right-new-tinder-preprints-app
- 14: https://jhubiostatistics.shinyapps.io/papr/
- 15: https://www.nature.com/new/s/swipe-right-for-science-papr-apple under-for-preprints-1.2216
- 16: https://www.uvrn.edu/uvmnews/news/deeper-story-data
- 17. https://www.nytimes.com/interactive/2016/08/26/us/college-studentsmiteration.html?smid=pl-shares
- 18. https://www.nytimes.com/interactive/2016/07/25/us/wildfire-seasons-loss angeles .html
- 19: https://www.nytimes.com/2016/07/26/upshot/democrats-may.nol-besumfied-but-their-conventions/peakerseare.html
- 20. https://www.nytimes.com/2016/07/19/upshot/whos-not-speaking-frow-this-republican-conventionsdiffers.html?smid=pl-share
- 21: https://www.nytimes.com/in-teractive/2016/07/14/world/europo/mail.colorer .html
- 22: http://nickstrayer.me/istudioconf_sbm
- 23. https://tbilab.gitnub.io/sbmR/
- 24: https://www.ncbi.nlm.nih.gov/pubmed/30419234
- 25. http://nickstrayer.me/istudioconf19_me-poster/
- 26. http://nickstrayer.me/biostat_seminar/
- 27. http://nickstrayer.me/qualifying_exam/
- 28: https://www.sernanticscholar.org/paper/An-Agent-Based-Model of the Lie -Vertical-Migration-Strayer-Stockwell /40493c78e8ecf_2bd662d17-c99fd913ec4b9820