### Education

### Data Science Social Justice

Chad M. Topaz QSIDE Institute, Williams College, and CU–Boulder

# (I) WHAT IS THIS TALK ABOUT

Education

actually vast

## Data Science Social Justice

# WHAT IS THIS TALK ABOUT

# EDUCATING ABOUT SOCIAL JUSTICE ISSUES BY USING DATA

### W. E. B. Du Bois's Data Portraits Visualizing Black America

THE COLOR LINE AT THE TURN OF THE TWENTIETH CENTURY





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# EDUCATING ABOUT SOCIAL JUSTICE PROBLEMS EXACERBATED BY DATA

### ARTIFICIAL UNINTELLIGENCE

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**??** 

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How Computers Misunderstand the World

### MEREDITH BROUSSARD



independent fro Gebru

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A year ago I found out, from one of my direct reports, that I had apparently resigned. I had just been fired from Google in one of the most disrespectful ways I could imagine.

My name is Joy Buolamwini. I'm a poet of code on a mission to stop an unseen force that's rising. A force that I call the coded gaze – my term for algorithmic bias.



# For truly ethical AI, its research must be independent from big tech | Timnit

# WEAPONS OF Math destruction



HOW BIG DATA INCREASES INEQUALITY AND THREATENS DEMOCRACY

CATHY O'NEIL

'Fascinating and deeply disturbing' YUVAL NOAH HARARI, GUARDIAN BOOKS OF THE YEAR



# EDUCATING ABOUT DATA IN A WAY THAT IS SOCIALLY JUST



□ Issue 1.2, Fall 2019 -

•••• 2 more

Published on Nov 19, 2019

# Data Science as a Foundation for Inclusive Learning

by Robert A. Lue

Published on Nov 19, 2019



Journal of Statistics and Data Science Education

### Inclusivity in Statistics and **Data Science Education**

Jeff Witmer

To cite this article: Jeff Witmer, Inclusivity in Statistics and Data Science Education, Journal of Statistics and Data Science Education 29:1 (2021) 2-3



# MAKING EDUCATION MORE SOCIALLY JUST THROUGH THE USE OF DATA

JOURNAL OF EDUCATIONAL DATA MINING Using a Latent Class Forest to Identify At-Risk Students in Higher Education

VOLUME 11 NO 1 (2019)

Kevin Pelaez San Diego State University

Maureen Guarcello San Diego State University

Juanjuan Fan San Diego State University Richard A. Levine San Diego State University

Mark Laumakis San Diego State University

Journal of Economic Literature 2022, 60(2), 454–493 https://doi.org/10.1257/jel.20211686

### Black Economists on Race and Policy: Contributions to Education, Poverty and Mobility, and Public Finance

DANIA V. FRANCIS, BRADLEY L. HARDY, AND DAMON JONES

*The Review of Higher Education* Winter 2018, Volume 41, No. 2, pp. 169–216 Copyright © 2017 Association for the Study of Higher Education All Rights Reserved (ISSN 0162–5748)

### Geographical Network Analysis and Spatial Econometrics as Tools to Enhance our Understanding of Student Migration Patterns and Benefits in the U.S. Higher Education Network

Manuel S. González Canché



# QUANTCRIT

Volume 21, Number 2, March 2018

### race ethnicity and education

Special Issue: QuantCrit: Rectifying Quantitative Methods Through Critical Race Theory

Guest Editors: Nichole M. Garcia, Nancy López and Verónica N. Vélez



Critical race theory (CRT) in education centers, examines, and seeks to transform the relationship that undergirds race, racism, and power. CRT scholars have applied a critical race framework to advance research methodologies, namely qualitative interventions. Informed by this work, and 15 years later, this article reconsiders the possibilities of CRT applications to quantitative methodologies through QuantCrit...We argue that quantitative approaches cannot be adopted for racial justice aims without an ontological reckoning that considers historical, social, political, and economic power relations. Only then can quantitative approaches be re-imagined and rectified.



# WHAT IS THIS TALK ABOUT



Mathematics majors need "a command of data analysis and statistical inference at a level equivalent to that attained in an applied data analysis course."

MATHEMATICS

### **Modern Mathematics Confronts Its White, Patriarchal Past**

Mathematicians want to think their field is a meritocracy, but bias, harassment and exclusion persist

By Rachel Crowell on August 12, 2021



# **Everything is fine**.



# DOES THE MATH MAJOR\* REQUIRE AN APPLIED DATA ANALYSIS COURSE?

Universities with largest enrollments:

- I. Central Florida
- 2. Texas A&M
- 3. Ohio State
- 4. Florida International
- 5. Florida
- 6. Georgia State
- 7. Arizona State
- 8. Illinois
- 9. Minnesota
- 10. Texas Austin

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I. Williams 2. Amherst 3. Swarthmore 4. Pomona 5. Wellesley 6. Bowdoin 7. US Naval Academy 8. Claremont McKenna 9. Carleton **10. Middlebury** 



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WHAT IS THIS TALK ABOUT inspiring you to incorporate data skills into undergraduate mathematics education in ways that involve social justice concepts\*

\*This is not by any stretch social justice activism, though arguably it contributes to supporting conditions

# ACTOR IS TALK ABOUT



# (II) TEACHING ABOUT/FOR JUSTICE

Math 200 Prof. Chad Topaz

### WHY TAKE THIS COURSE?

This course will help you understand the world through a mathematical lens and will develop your powers of argumentation and critical thinking. We will explore and utilize diverse areas of discrete mathematics including logic, set theory, functions and relations, combinatorics, probability, networks, and more. We also will discuss methods and styles of mathematical proofs in order to prepare you for more advanced math courses. Finally, while mathematical knowledge is often perceived as being "pure," we will highlight some ways in which it is socially constructed and hence subject to human limitations and biases.



Math 200 Prof. Chad Topaz



PROOFS



"Johnstone insisted that my duality theorem is 'folklore,' whilst admitting at the same time that no statement let alone any proof of it appears in the literature preceding my preprint, on the sole grounds that "all the elements in the proof were known long before you wrote them down"... and on the pretention that any expert in the subject could have put them together to prove the theorem."



Math 200 Prof. Chad Topaz



PROOFS

Synthese https://doi.org/10.1007/s11229-018-01981-1

S.I.: MATHCOGENCUL

Received: 31 January 2018 / Accepted: 8 October 2018 © Springer Nature B.V. 2018

Abstract



### **Epistemic injustice in mathematics**

### Colin Jakob Rittberg<sup>1</sup> · Fenner Stanley Tanswell<sup>2</sup> Jean Paul Van Bendegem<sup>1</sup>

We investigate how *epistemic injustice* can manifest itself in mathematical practices.

Math 200 Prof. Chad Topaz



PROOFS

Score Mean

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20

### **Diversity** in **proof appraisal**

<u>M Inglis, A Aberdein</u> - Mathematical cultures, 2016 - Springer

an implicit assumption of ...

Save Cite Cited by 26 Related articles All 11 versions



Math 200 Prof. Chad Topaz



NETWORKS

FOREWORD BY GENIE LAUREN

### #HashtagActivism

**Networks of Race and Gender Justice** 



**SARAH J. JACKSON MOYA BAILEY BROOKE FOUCAULT WELLES** 

- I. The authors create social networks in which nodes are Twitter users. What two approaches do they use for assigning edges?
- 2. What are some measure of network structure that the authors use to quantify and study the networks?
- 3. What is the authors' goal in using those measures? What are they trying to identify?
- 4. What is the #AllMenCan network?
- 5. How is the #CrimingWhileWhite network different (structurally) from the #AllMenCan network?



Math 433 Prof. Chad Topaz



### WHY TAKE THIS COURSE

Just as you can strive to understand the world through the lenses of art, economics, history, sociology, and more, you can similarly strive to understand it through the lens of mathematics. Mathematical modeling refers to translating real (or imagined!) phenomena into a mathematical object, using mathematics to study that object, and in turn, discovering things about the real (or imagined!) world.



Math 433 Prof. Chad Topaz



J'I'A'I' LONAL  $M()|)|_{1}$ OF ABSTRACT ART

Goals

- Art through a data-driven modeling lens
- Artists with marginalized identities
- Celebrate, not co-opt
- Consider artistic process at granular level
- **Process/Deliverables**
- Select artist(s) and artwork(s)
- Take data (image acquisition, processing)
- Generate art (algorithms)
- Artists' statement (writing)

Math 433 Prof. Chad Topaz



COMPUTATIONAL MODELS OF ABSTRACT ART

### Jaime Domínguez, Mex KALÓS #5 (2020)



### Cameron Edgar, Joshua Hewson, Edwin Mejia, Peter Zhao (2021)



Math 433 Prof. Chad Topaz



COMPUTATIONAL MODELS OF ABSTRACT ART

### Mandy El-Sayegh, Net-Grid (2021)



### Saisha Goboodun, Porter Johnson, Aayushi Pramanik (2021)



Williams College

### SENIOR HONORS THESIS

PEER-REVIEWED OPEN ACCESS **RESEARCH ARTICLE** Daniel P. Maes, Julia Tucher, Chad M. Topaz

Published: May 12, 2021 · https://doi.org/10.1371/journal.pone.0250266

# **PLOS ONE**

### Affirmative action, critical mass, and a predictive model of undergraduate student body demographics



Williams College

### SENIOR HONORS THESIS

5A

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### MARKOV CHAIN MODEL





Williams College

### SENIOR HONORS THESIS

Validation



# **RESULTS FOR UC BERKELEY**



### Prediction



### Williams College

### SUMMER EXPERIENCE

**RESEARCH ARTICLE** 

Eli Miller, Bryan D. Martin, Chad M. Topaz

Published: January 19, 2022 · https://doi.org/10.1371/journal.pone.0262255

# **PLOS ONE**

OPEN ACCESS PEER-REVIEWED

### New York City jails: COVID discharge policy, data transparency, and reform



Williams College



### SUMMER EXPERIENCE

## MARCH 23 – 29, 2020

### DAILY NEWS



De Blasio said he has been working closely with NYPD Commissioner Dermot Shea, the Mayor's Office of Criminal Justice, the Department of Correction and district attorneys to come up with a list of people who are at high risk of contracting coronavirus and are at low risk of reoffending.



### Williams College

### SUMMER EXPERIENCE

# RESULTS

"There was a dramatic and unprecedented reduction in the New York City jail population... In concordance with de Blasio's stated policy, we find that being discharged during the focus week is associated with a lower probability of readmission as compared to being discharged during the same calendar week in previous years."



### Williams College



### SUMMER EXPERIENCE

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### Williams College

### INDEPENDENT STUDY / RA-SHIP

Chad M. Topaz, Jude Higdon, Avriel Epps-Darling, Ethan Siau, Harper Kerkhoff, Shivani Mendiratta & Eric Young

Nature Humanities and Social Sciences Communications 9, Article number 221 (2022)

Article | Open Access | Published: 29 June 2022

### **Race- and gender-based under**representation of creative contributors: art, fashion, film, and music



Williams College



### INDEPENDENT STUDY / RA-SHIP



### Williams College

### INDEPENDENT STUDY / RA-SHIP

### Data ethics

"The American Statistical Association (ASA) provides ethical guidelines for statistical practice (American Statistical Association, Committee on Professional Ethics, 2018), addressing over 50 issues related to professional accountability, data and methodological integrity, public transparency, responsibility to research subjects, and more. We have considered all guidelines in detail, and we now mention a few that play a special role in our study."



Williams College



### RESEARCH SEMINAR

## Multiracial Identity in Educational Data

Isabel Albores, Annie Gustafson, Mila Nazarali, Emma Neil, Lilliana Wells

Spring, 2022

### 1 Introduction

Between 2010 and 2020, the U.S. multiracial population – individuals with more than one racial identity – grew from 9 million to 33.8 million (US Census, 2020). Multiracial children and adolescents compose an increasingly significant portion of the student population (McCubbin, 2013), yet their educational out comes remain understudied (Charmaraman et al., 2014). The study of multiracial students poses complex ethical issues, not least because researchers remain undecided about the best way to identify multiracial populations. Most racial identification data is collected through surveys, but the way survey respondents are asked about their racial identity and ethnicity has a significant impact on their responses (Patten, 2015; Parker et al., 2015).

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### RESEARCH SEMINAR



Original: 1,941 (9%) Multiracial

# HIGH SCHOOL LONGITUDINAL STUDY '09

Adjusted: 5,316 (25%) Multiracial



Williams College



### RESEARCH SEMINAR

## Legacy Admissions and Racial Diversity

Emily Axelrod, Rijul Jain, Lily Napach, Alessa Somer

Spring, 2022

### 1 Introduction

We investigate the impact of legacy admissions—the practice at many highly selective colleges and universities of preferring to admit students who are related to alumni—on campus racial diversity. Legacy students have a 45% admissions advantage over non-legacy students at the most selective US universities. Recent lawsuits against Harvard have made previously inaccessible admissions data available, revealing the racial composition of legacy admits as 43% white and less than 16% African American, Asian American, and Hispanic. We use data from the Common Data Set for over 40 highly selective colleges and universities from 2016-20 to analyze the relation of stated admissions criteria to racial demographics on campus.

### Williams College



### RESEARCH SEMINAR



### Carnegie Mellon Common Data Sets

The Common Data Set initiative is a collaborative effort among data providers in the higher education community and publishers as represented by the College Board, Peterson's, and U.S. News & World Report. The combined goal of this collaboration is to improve the quality and accuracy of information provided to all involved in a student's transition into higher education, as well as to reduce the reporting burden on data providers.

C7. Relative importance of each of the following academic and nonacademic factors in your first-time, first-year, degree-seeking (freshmen) admission decisions.

Rigor of se **Class rank** Academic **Standardiz** Application Recomme Interview Extracurric Talent/abil Character/ First gener Alumni/ae Geographi State resid **Religious** a Racial/eth Volunteer

Work expe

Common Data Set 2021-22 Common Data Set 2020-21 Common Data Set 2019-20 Common Data Set 2018-19 Common Data Set 2017-18 Common Data Set 2016-17 Previous Common Data Sets

	Very Important	Important	Considered	Not Consi
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ζ.	Х			
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oplicant interest				Х



Williams College



### RESEARCH SEMINAR



# (III) BUILDING YOUR SKILLS\*

\*IF NECESSARY

# SOME STARTING POINTS

**Texts in Statistical Science** 

### Modern Data Science with R Second Edition



Benjamin S. Baumer Daniel T. Kaplan Nicholas J. Horton



### POSIT CLOUD

# Friction free data science

Posit Cloud lets you access Posit's powerful set of data science tools right in your browser-no installation or complex configuration required.

**GET STARTED** 

ALREADY A USER? LOG IN

# SOME STARTING POINTS



Explore 🗸

What do you want to learn?



Browse > Data Science > Data Analysis

### **Data Science Specialization**

Launch Your Career in Data Science. A ten-course introduction to data science, developed and taught by leading professors.

**\*\*\*\*\*\*4.5** 38,574 ratings



Jeff Leek, PhD +2 more instructors

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Starts Jul 17

Financial aid available

478,525 already enrolled

Online Degrees V Find your New Career Log In Join for Free

Offered By





# SOME STARTING POINTS



# Your Campus



# **QSIDE INSTITUTE**

## "The way to right wrongs is to turn the light of truth upon them."

- Journalist, educator, and civil rights pioneer Ida B. Wells

- 501(c)3 tax-exempt nonprofit
- Established in 2019
- Covered in The Atlantic, The Guardian, MIT Technology Review, Mother Jones, People, Smithsonian, Washington Post, Science...
- Research-to-Justice-to-Action projects
- Education and community building

QSIDE





# **EDUCATION: DATATHONS**

### DATATHON 10.24.2 10.22.21 K WITH LIKE MINDED SOCIAL JUSTICE ADVOCATES FROM ACROSS THE COUNTRY **REGISTER NOW AT** WWW.QSIDEINSTITUTE.ORG /DATATHON4JUSTICE/ DETAILS ONLINE

HIGH SCHOOL **DATATHON4JUSTICE** 

We Are Happy To Be Working With The Following Schools:

- Chesapeake Math and IT Academy (Laurel, Maryland)
- Glendale Unified School District (Glendale, California)
- Paramount School System (Paramount, California)
- Plainfield Community School Corporation (Plainfield, Indiana)

If you have any inquiries, feel free to reach us at:

• qside@qsideinstitute.org

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math

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# EDUCATION: CURRICULUM

### Data4Justice Curriculum

### Case Study

Chad M. Topaz, Andrew Lopez, Jude Higdon, Tyrone Bass Edited by Brittney Bailey

- March 20, 2022
- 1 Acknowledgments
- 2 Introduction
- 3 Understand the data and the research study
  - 3.1 Define the type of study
  - 3.2 Understand how the museums in the study were chosen
  - 3.3 Define our variables and observations
  - <u>3.4 Download data using RStudio</u>
  - 3.5 Key concepts, commands, and techniques
- 4 Get data ready to analyze in RStudio
  - 4.1 Describe the structure of the data
  - 4.2 Describe the content of data
  - 4.3 Prepare data for analysis

• <u>4.4 Key concepts, commands, and techniques</u>

5 Explore, summarize, and visualize a single variable

- <u>5.1 Create tabular displays of categorical data and summaries of</u> <u>numerical data</u>
- <u>5.2 Create plots to summarize and visualize categorical and numerical</u> <u>data</u>
- 5.3 Key concepts, commands, and techniques

6 Infer from data for a single variable

- <u>6.1 Use statistics to make inferences about population parameters based</u>
   <u>on a random sample from that population</u>
- 6.2 Create confidence intervals for categorical and numerical data
- 6.3 Key concepts, commands and techniques

7 Explore, summarize and visualize relationships between two variables

- 7.1 Create tabular displays of two variables
- <u>7.2 Create plots to visualize two variables</u>
- 7.3 Key concepts, commands and techniques

Appendix A: American Community Survey Data

Appendix B: Global World Population



# EDUCATION: CONFERENCES

### The Institute for the Quantitative Study of Inclusion, Diversity, and Equity presents

Martin Martin

### Data4Justice Conference

April 16, 2021 via Zoom



### **Plenary Lecture: Heather McGhee**

Former president of Demos, American political commentator, co-chair of Color of Change, and author of The Sum of Us: What Racism Costs Everyone and How We Can Prosper.



Max Jordan Nguemeni Tiako Yale University School of Medicine Obstruction of Justice: Colorblindness as a Barrier Against Health Equity"



Dr. Jasmine Drake Texas Southern University 'The Intersectionality of Forensic Science and the Criminal Justice System"



Dr. Diana Greenwald sabella Stewart Gardner Museum Why Have There Been No Great Nomen Artists? Artistic Labor and Time Constraint in Nineteenth-Century America"



Dr. Srivi Ramasubramanian Fexas A&M University "Data for Social Justice in Media Contexts"



Lourdes Vera Northeastern University A Community-Based Tool to Measure Hydrogen Sulfide Near Oil and Gas Development"





Dr. Lola Fayanju Duke University School of Medicine "Diversity, Representativeness, and the Importance of Inclusive

Berea College "Identifying Racially Discriminatory Federal Judges"

Dr. Alissa Richardson USC Annenberg School of Communication "The Coming Archival Crisis: How Social Media Disappears Black Witnessing"



Dr. Anne-Marie Núñez The Ohio State University "Data for Equity in Education"

Dr. Alejandro Ponce World Justice Project "Environmental Governance Indicators"



# Conference

A virtual, all-day event for scholars, activists, policymakers, and allies to explore the ways we can power social justice together. Want to learn more about how data, research, and activism come together to create change? Join us! -

April 22, 2022 via Zoom



Scholar of societal development with a background in satellite design, earth science applications, systems engineering, and technology policy.





The Institute for the Quantitative Study in Inclusion, Diversity, and Equity presents Data4JUStice



ß

Speakers and discussion surrounding five **Research Focus Areas:** 

**Health Care Equity Criminal Justice Inclusion in Arts/Media Environmental Justice Education Equity** 

THE INSTITUTE FOR THE QUANTITATIVE STUDY OF INCLUSION. DIVERSITY, AND EQUITY PRESENTS

# SQUARED JUSTICE CONFERENCE

STUDENT QUANTITATIVE METHODS FOR ACTION RESEARCH FOR EQUITY, DIVERSITY, AND JUSTICE CONFERENCE,

**AN ONLINE POSTER CONFERENCE FEATURING** SOCIAL JUSTICE, STUDENT-DRIVEN RESEARCH

04/16/2022 FROM 1:00 P.M. ET



https://www.eventbrite.com/e/sq uared-justice-conference-tickets-262084982237



If you have any questions or concerns, please email us at qside@qsideinstitute.org

# EDUCATION: SEMINARS (YOUTUBE!)





### **Size Matters to Lesbians Too:**

Queer Trans Feminist Interventions into Data, Algorithms, and Visualizations



Jen Jack Gieseking January 27, 2022 4-5pm EST | Zoom QSIDE Colloquium

# Honored Antician State of the S

September 30, 2021 4-5pm EST | Zoom

**QSIDE Colloquium 2021** 

OSIDE COLLOQUIUM

A ROAD TO INEQUITY PAVED WITH GOOD INTENTIONS: DATA SCIENCE AND HEALTH CARE DELIVERY IN THE US

> 4PM - 5PM ETU FEBRUARY 24, 2022 OVER ZOOM

Information online at www.qsideinstitute.org



TAJ

**MUSTAPHA** 





### Gaelan Smith

and Knowledge Manager

Labels Matter: Methodology and Data Visualization

February 4, 2021 4:00p.m. EST



# EDUCATION: D4J ACCELERATOR



### Kaniqua Outlaw

Community health worker, graduate student

Project: Criminal sentencing disparities in North Carolina



### Daniel Bullman

Peer Recovery Specialist, graduate student

Project: Continuity of care for justice impacted individuals



### Ryan Rowe

Undergraduate student

Project: Social media's impact on anti- qualified immunity legislation



Christopher Dunstan

Graduate student, dancer

Project: Crediting dance pioneers



# A FEW OF OUR PARTNERS **National National** Galleryof Art

### RESPONSIBLE **BUSINESS INITIATIVE** FORJU ST

**USC**Race and Equity Center

Our mission is to ILLUMINATE, **DISRUPT**, and **DISMANTLE** racism in all its forms.

# PRSEVER **REAL HOPE. VALUABLE SKILLS. MEANINGFUL OPPORTUNITY.**



# CONSORTIUM

- Bates College
- Bard College
- Clarkson University
- Colgate University
- Colorado State University
- University of Colorado Boulder
- Duke University
- Hamilton College
- Lewis University
- Macalester College
- Michigan State University

- Northwestern University
- Rice University
- Seattle University
- Southwestern University
- Swarthmore College
- Texas Southern University
- University of the District of Columbia
- University of Utah
- Voorhees College
- Washington and Lee University
- Wofford College



# **GETTING INVOLVED** WWW.QSIDEINSTITUTE.ORG

- Sign up as an affiliate (announcements, newsletters, etc.)
- Have your department/school/institution join the consortium
- Use the Data4 Justice case study (soon, "studies")
- Participate in research labs
- Participate in data hackathon
- Attend Datathon4 Justice
- Participate/support SQuARED Justice (student online conference)
- Watch recorded talks
- Reach out if you need something, have questions, etc.