SAS[®] GLOBAL FORUM 2019

USERS PROGRAM

APRIL 28 - MAY 1, 2019 | DALLAS, TX



The Good, The Bad, and The Creepy: Why Data Scientists Need to Understand Ethics

Jennifer Lewis Priestley, Ph.D. Kennesaw State University Dr. Priestley is the Associate Dean of The Graduate College and the Director of the Analytics and Data Science Institute at Kennesaw State University. In 2012, the SAS Institute recognized Dr. Priestley as the 2012 Distinguished Statistics Professor of the Year. She served as the 2012 and 2015 Co-Chair of the National Analytics Conference. Datanami recognized Dr. Priestley as one of the top 12 "Data Scientists to Watch in 2016." She is a member of the Advisory Board for the Southern Data Science Conference.

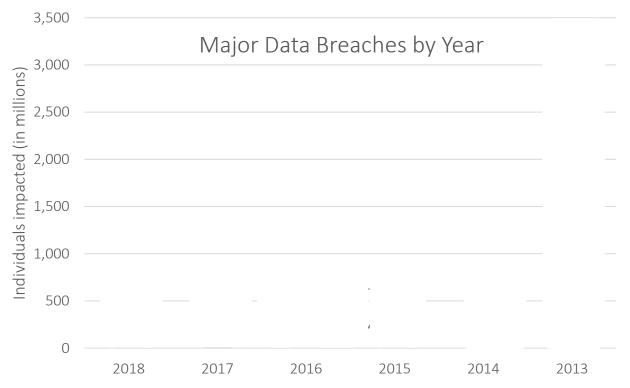
Prior to receiving a Ph.D. in Statistics, Dr. Priestley worked in the Financial Services industry for 11 years. Her positions included Vice President of Business Development for VISA EU in London, as well as for MasterCard US and an analytical consultant with Accenture's strategic services group. Dr. Priestley received a Ph.D. from Georgia State, a MBA from The Pennsylvania State University, and a BS from Georgia Tech.

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Issue 1: A few people can cause a great deal of harm



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Should researchers utilize hacked datasets that have been released in public forums?

Issue 2: Lack of Consent

Experimental evidence of massive-scale emotional contagion through social networks



Adam D. I. Kramer, Jamie E. Guillory, and Jeffrey T. Hancock

PNAS June 17, 2014 111 (24) 8788-8790; first published June 2, 2014 https://doi.org/10.1073/pnas.1320040111

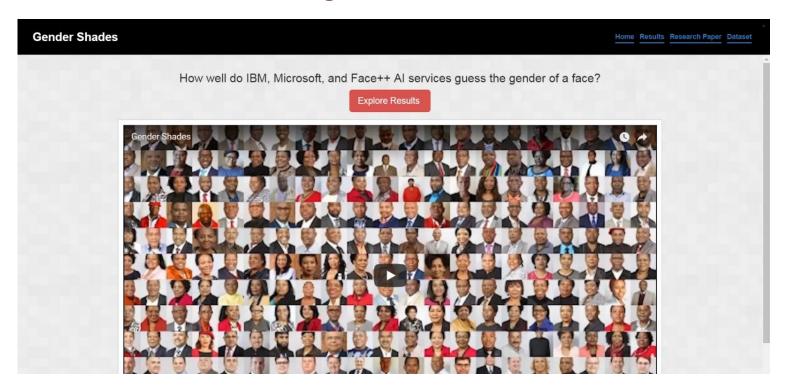
Edited by Susan T. Fiske, Princeton University, Princeton, NJ, and approved March 25, 2014 (received for review October 23, 2013)

Issue 2: Lack of Consent

DNA profiles from ancestry websites helped identify the Golden State Killer suspect

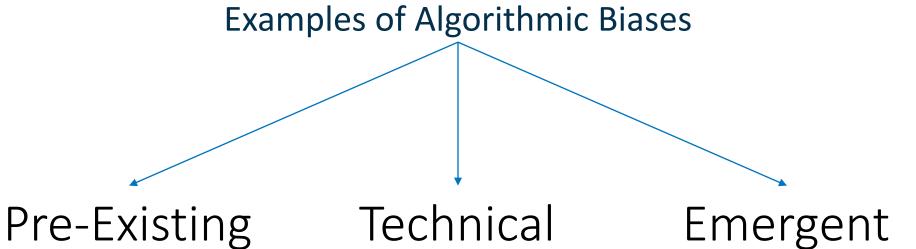
He wasn't the first criminal to fall to familial DNA matching, and he won't be the last.

Issue 3: Will this algorithm do what I think it does?



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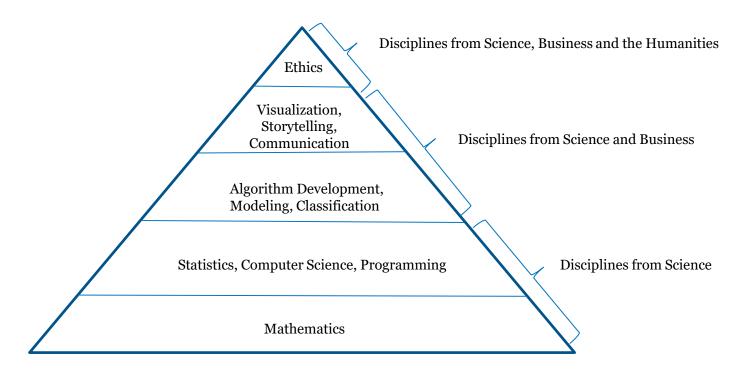
Mission of the FDA:

The Food and Drug Administration is responsible for protecting the public health by ensuring the safety, efficacy, and security of human and veterinary drugs, biological products, and medical devices; and by ensuring the safety of our nation's food supply, cosmetics, and products that emit radiation.



- 1) Ensure students understand the law (e.g., GDPR)
- 2) Create awareness...ask questions at each stage
- 3) Engage Institutional Research Boards
- 4) Don't shortcut the math/statistics

Maslow's Hierarchy of Data Science



Thank you!

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