







Dr Luke Treglown

Lead Statistician



Thomas International Global Psychology Team

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- 1. How is technology and data analytics helping?
- 2. Are these making us more bias?
- 3. How Psychology Can Help Combat Bias



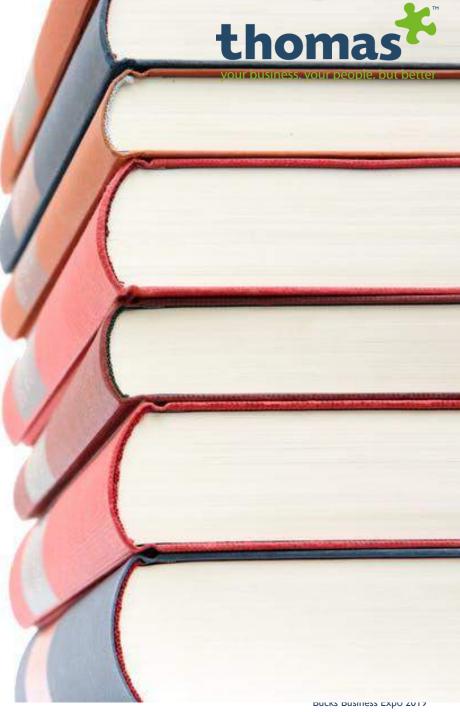


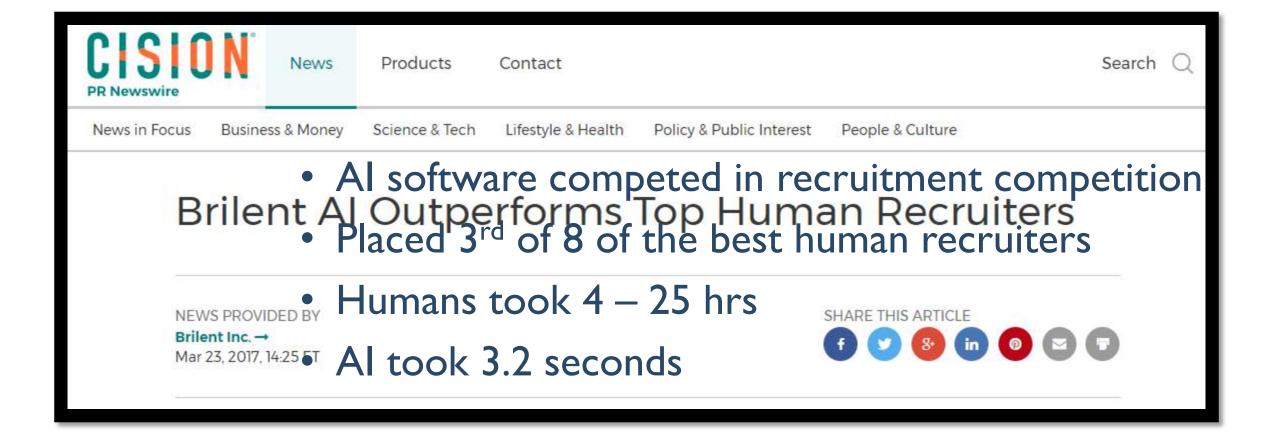
Latest Research:

- Ψ Predicting Personality from Eye Movement
 - Neurotic people tended to blink faster;
 - Open-minded people had bigger side-to-side eye movements;
 - Conscientious people had greater fluctuations in their pupil size

Ψ Identifying Liars

- People are terrible at spotting liars
- Machines can accurately detect lying with 76% accuracy (humans are no better than chance)









World

Business

Markets

Politics

TV

BUSINESS NEWS

OCTOBER 10, 2018 / 4:12 AM / A MONTH AGO

Amazon scraps secret Al recruiting tool that showed bias against women

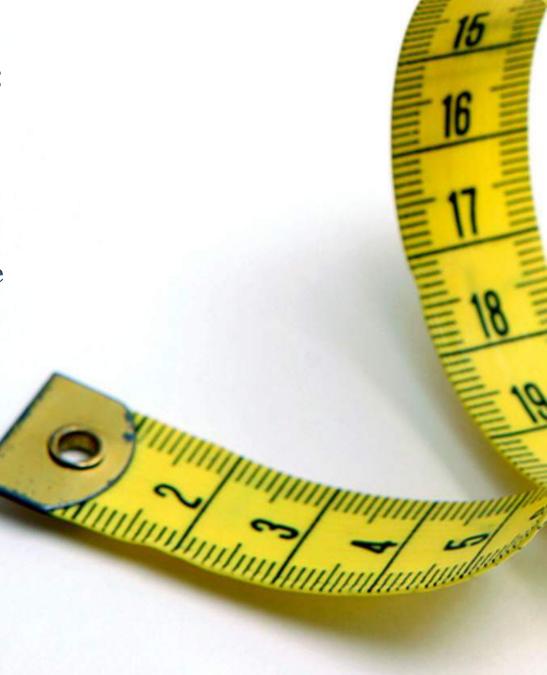
Jeffrey Dastin

8 MIN READ



AI has been shown to increase bias:

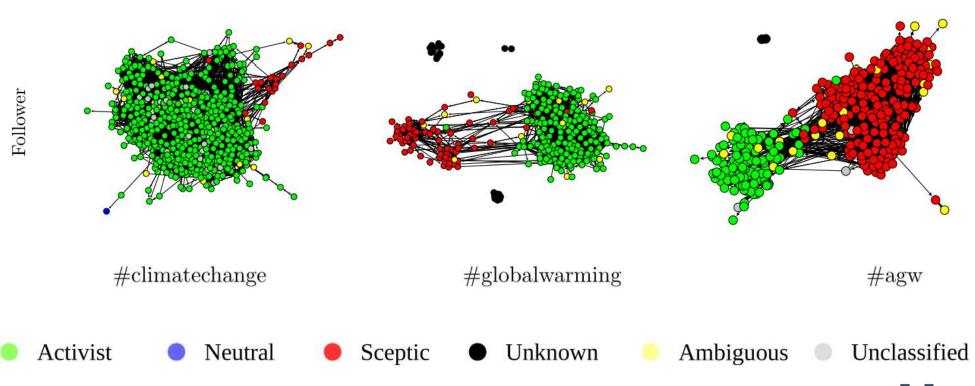
- Ψ Face Recognition
 - Identifying gender and race
- Ψ Racism in Judicial System
 - COMPAS decides sentencing based on chance of reoffending
 - Black defendants sentenced more severely
- Ψ Sexism and Gender Bias
 - Linguistic associations:
 - Male names with careers
 - > Female names with home and the arts
 - European-American names vs. African-American names





We seek out people who have similar view to ours

H.T.P. Williams et al./Global Environmental Change 32 (2015) 126–138



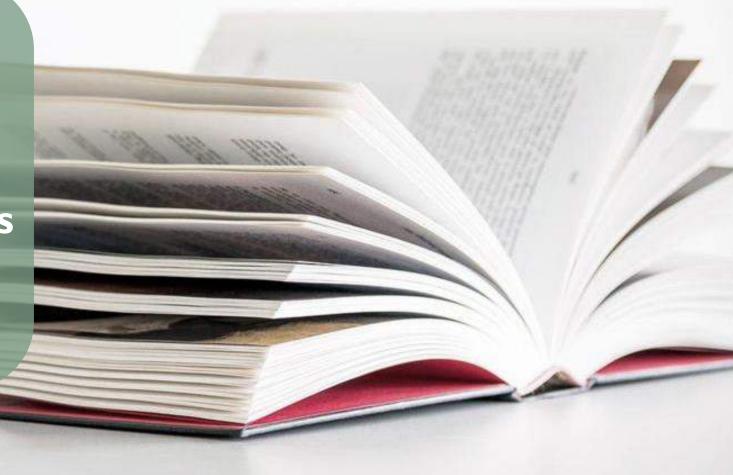
Williams, H. T., McMurray, J. R., Kurz, T., & Lambert, F. H. (2015). Network analysis reveals open forums and echo chambers in social media discussions of climate change. *Global Environmental Change*, 32, 126-138.

thomas your business. your people. but better





- Bias in Who Should Lead
- Stereotypes about Leadership Qualities
- Expectations about Gender





your business. your people, but better

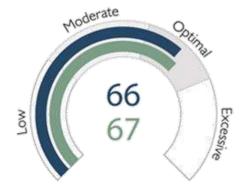


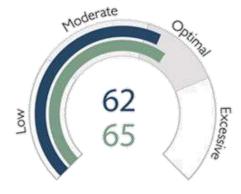


Female vs Male scores

- Female scores
- Male scores







Risk Approach

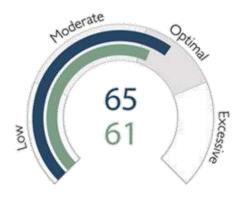
Adjustment





Ambiguity Acceptance

Curiosity





Competitiveness



TEIQ^{ue} Female vs Male scores

- Female scores
- Male scores
- Equal scores





How do we reduce AI's bias?

Ψ HR specialists involved in building models

Ψ Data

Put rubbish in, get rubbish out

Ψ Greater emphasis on identifying, recognizing, and removing bias

Thank you

Dr Luke Treglown Lead Statistician luket@thomas.co.uk

