### MODERN ETHICS?

## CHRIS HARTGERINK @CHARTGERINK

JAN. 20. 2017

### COMMON PROBLEMS

### COMMON PROBLEMS

COMMON SOLUTIONS

## INTEGRITY

COMMON PROBLEMS

COMMON SOLUTIONS

### UNCOMMON PROBLEMS

UNCOMMON SOLUTIONS

## ETHICS

UNCOMMON PROBLEMS

UNCOMMON SOLUTIONS

## UNCOMMON

COMMON

## ETHICS



INTEGRITY

## ETHICS



## SET THE STANDARDS

# TAUGHT THE STANDARDS

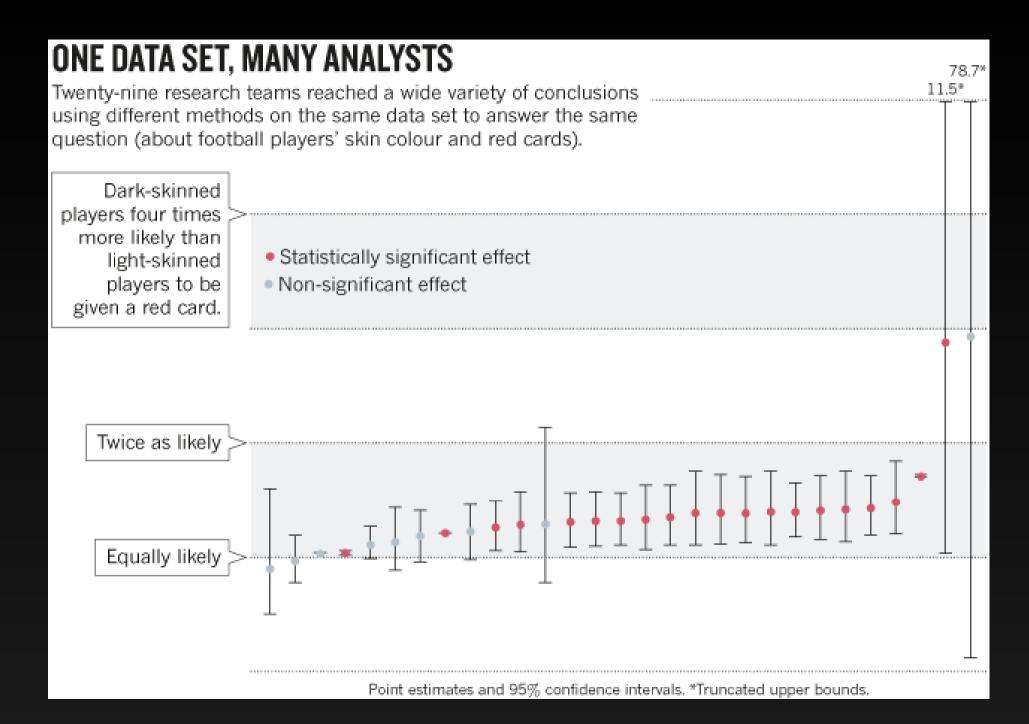
# HOW TO THINK ABOUT ETHICS?

# SOCIOLOGY OF SCIENCE

Norm	Counternorm

Norm	Counternorm
Universalism	

Norm	Counternorm
Universalism	Particularism



Norm	Counternorm
Universalism	Particularism
Communality	

Norm	Counternorm
Universalism	Particularism
Communality	Secrecy

Using the R package statcheck (v1.0.1), the HTML version of this article was scanned on 2016-08-05 for statistical results (t, r, F, Chi2, and Z values) reported in APA format (for specifics, see Nuijten et al., 2015). An automatically generated report follows.

The scan detected 16 statistical results in APA format, of which 3 contained potentially incorrect statistical results, of which 1 may change statistical significance (alpha = .05). Potential one-tailed results were taken into account when 'one-sided', 'one-tailed', or 'directional' occurred in the text.

The errors that may change statistical significance were reported as: t(305) = -1.66, p < .05 (recalculated p-value: 0.09794)

The errors that may affect the computed p-value (but not the statistical significance) were reported as:

F(2, 55.33) = 4.30, p < .01 (recalculated p-value: 0.01837) F(2, 304) = 4.14, p = .01 (recalculated p-value: 0.01683)

Note that these are not definitive results and require manual inspection to definitively assess whether results are erroneous.

#### Reference

Nuijten, M. B., Hartgerink, C. H. J., van Assen, M. A. L. M., Epskamp, S., & Wicherts, J. M. (2015). The prevalence of statistical reporting errors in psychology (1985-2013). Behavior Research Methods. http://dx.doi.org/10.3758/s13428-015-0664-2



Reply Report

Permalink

The online journal club

#### Unregistered Submission: ( December 23rd, 2016 2:30pm UTC )

This is painful, and I learned something here. I was under the impression that since F-statistic = squared t-statistic, alpha for a one-tailed F-test would equate alpha for a one-tailed t-test. However, F-tests are already one-tailed, plus the F = t-squared equation only holds for df = 1. This is all nicely explained by Daniel Lakens at <a href="http://daniellakens.blogspot.nl/2016/04/one-sided-f-tests-and-halving-p-values.html">http://daniellakens.blogspot.nl/2016/04/one-sided-f-tests-and-halving-p-values.html</a> Thus, the correct p-value here is indeed 0.09316 (which we also report). Needless to say, the effects found here, even though they emerge in three experiments, are rather weak. -CO

Reply

Report

Permalink

### PubPeer

The online journal club

Peer 3: ( January 8th, 2017 7:34pm UTC )

In fact, there is a an error in the first analysis.

We reported the wrong statistical test number, and we are sorry for that.

### PubPeer

The online journal club

Norm	Counternorm
Universalism	Particularism
Communality	Secrecy
Disinterestedness	

Norm	Counternorm
Universalism	Particularism
Communality	Secrecy
Disinterestedness	Self-interestedness

The New York Times

SCIENCE

#### Physicists in Europe Find Tantalizing Hints of a Mysterious New Particle

By DENNIS OVERBYE DEC. 15, 2015

#### The New York Times

SCIENCE

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SCIENCE

The Particle That Wasn't

By DENNIS OVERBYE AUG. 5, 2016

Here's Marty Seligman, past president of the American Psychological Association (APA):

APA presidents are supposed to have an initiative and. I thought mine could be "evidence-based treatment and prevention." So I went to my friend, Steve Hyman, the director of [National Institute of Mental Health]. He was thrilled and told me he would chip in \$40 million dollars if I could get APA working on evidence-based treatment.

So I told CAPP [which owns the APA] about my plan and about NIMH's willingness. I felt the room get chillier and chillier. I rattled on. Finally, the chair of CAPP memorably said, "What if the evidence doesn't come out in our favor?"

Norm	Counternorm
Universalism	Particularism
Communality	Secrecy
Disinterestedness	Self-interestedness
Skepticism	

Norm	Counternorm
Universalism	Particularism
Communality	Secrecy
Disinterestedness	Self-interestedness
Skepticism	Dogmatism

Norm	Counternorm
Universalism	Particularism
Communality	Secrecy
Disinterestedness	Self-interestedness
Skepticism	Dogmatism
Governance	

Norm	Counternorm
Universalism	Particularism
Communality	Secrecy
Disinterestedness	Self-interestedness
Skepticism	Dogmatism
Governance	Administration

### (PREPRINT) PUBLISHING

### (PREPRINT) PUBLISHING

BY THE SCHOLARS
FOR THE SCHOLARS

BY THE SCHOLARS
FOR THE PUBLISHERS

### (PREPRINT) PUBLISHING

arXiv.org









Norm	Counternorm
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Communality	Secrecy
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Skepticism	Dogmatism
Governance	Administration
Quality	

Norm	Counternorm
Universalism	Particularism
Communality	Secrecy
Disinterestedness	Self-interestedness
Skepticism	Dogmatism
Governance	Administration
Quality	Quantity



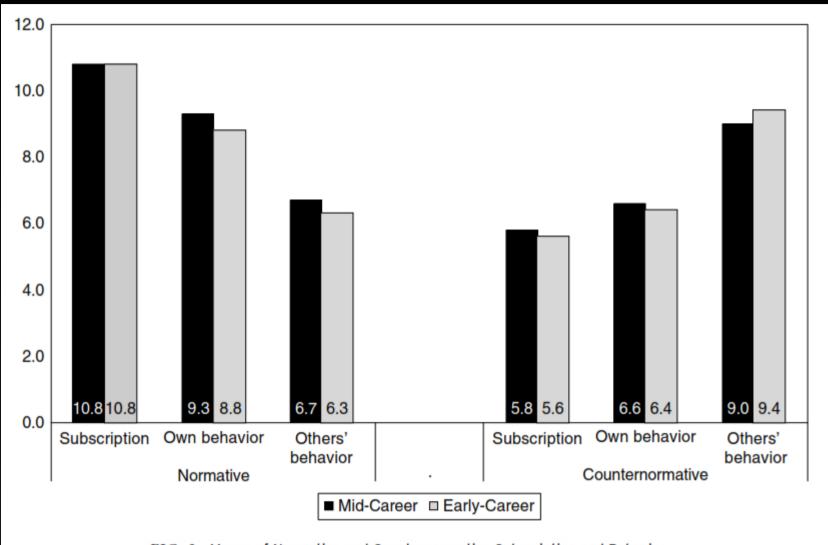


FIG. 2. Means of Normative and Counternormative Subscription and Behavior.

Norm	Transparency?
Universalism	Improved documentation
Communality	
Disinterestedness	
Skepticism	
Governance	
Quality	

Norm	Transparency?
Universalism	Improved documentation
Communality	Publicly share all findings
Disinterestedness	
Skepticism	
Governance	
Quality	

Norm	Transparency?
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Communality	Publicly share all findings
Disinterestedness	Increased accountability
Skepticism	
Governance	
Quality	

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Governance	
Quality	

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Communality	Publicly share all findings
Disinterestedness	Increased accountability
Skepticism	Sharing promotes verification
Governance	Improve project management
Quality	

Norm	Transparency?
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Quality	See above!

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Quality	See above!

#### OPEN SCIENCE = DIFFICULT?

OPEN SCIENCE FRAMEWORK



#### OPEN SCIENCE = DIFFICULT?

OPEN SCIENCE FRAMEWORK (OSF.IO)

LINK TO DROPBOX/GITHUB/+MORE

## URGENCY

### URGENCY

- Publication bias (example of secrecy)
- P-hacking (example of particularism)
- Reputation arguments (example of dogmatism)
- Access to knowledge = unsustainable (example of lack of governance and communality)
- Scholars evaluated not on quality but on bad metrics (Impact Factor, h-index, # of publications)

# MERTONIAN NORMS PROVIDE FRAMEWORK FOR THINKING ABOUT ETHICS

## TRANSPARENCY FITS THE MERTONIAN NORMS DIRECTLY

CHRIS HARTGERINK @CHARTGERINK JAN. 20. 2017