Some thoughts on R in integRity

Richard Gill Mathematical Institute, Leiden University

What I like about R

- Disciplined anarchy
- The community
- It's fun!

What I like about science

- Disciplined anarchy
- The community
- It's fun!

The R Inferno

Patrick Burns



Abstract: you.



To state the good I found there, I'll also say what else I saw.

Abstract: If you are using R and you think you're in hell, this is a map for

WANDERED through

http://www.r-project.org.



The Nine Circles of Scientific Hell

Neuroskeptic

In the spirit of Dante Alighieri's Inferno, this paper takes a humorous look at the fate that awaits scientists who sin against best practice.

The Divine Comedy of Dante Alighieri is a classic of world literature and was the first major work in the Italian language. In the first book of the trilogy, Inferno, Dante offers a tour of the nine increasingly horrible levels of Hell, in which the wicked are tormented forever in ways corresponding to their sins. But Dante lived before the era of modern science. Perhaps it is necessary to update his scheme to explain what happens to those guilty of various scientific sins, ranging from the commonplace to the shocking (see Fig. 1.).

Dante's Hell had a place for everyone, and it was only Christ's intervention that saved anyone from it; even "good" people went to Hell, because everyone sinned, and sins were still sins however ubiquitous they were. Likewise, very few scientists (the author is certainly not one of them) would be able to avoid being condemned to some level of this Inferno... but is that an excuse?

First Circle: Limbo

The uppermost circle is not a place of punishment so much as regret. Those who have committed no scientific sins per se, but

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Fourth Circle: p Value Fishing

Those who tried every statistical test in the book until they got a p value less than .05 find themselves here, in an enormous lake of murky water. Sinners sit on boats and must fish for their food. Fortunately, they have a huge selection of different fishing rods and nets (brand names include Bayes, Student, Spearman, and many more). Unfortunately, only one in 20 fish are edible, so the sinners in this circle are constantly hungry.

Fifth Circle: Creative Use of Outliers

Those who "cleaned up" their results by excluding inconvenient data points are condemned here. Demons pluck out their hairs one by one, each time explaining that the sinner is better off without that hair, because there was something wrong with it.

Sixth Circle: Plagiarism

This circle is empty because as soon as sinners arrive, a demon carries them to another circle and forces them to suffer the punishment meted out to the people there. After their 3-year "post" is up, they are carried to another circle, and so on ...



Some recent adventures

- We must distinguish between the integrity of a scientific work and the integrity of a scientific worker
- The worker is innocent till proven guilty (human dignity, respect ...)
- The work is up there, to be torn apart if in any way possible

Integrity Investigations

- the original crowd-sourcing)

 Investigating the worker: confidential, private (a) matter between an employer and an employee)

Investigating the work: public (scientific discourse is

The organisations always get it wrong

- The corporate approach to damage control almost always causes untold extra damage
- Lawyers and managers have no clue about the science



PERSPECTIVE

Beyond Bar and Line Graphs: Time for a New Data Presentation Paradigm

Tracey L. Weissgerber¹*, Natasa M. Milic^{1,2}, Stacey J. Winham³, Vesna D. Garovic¹

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Abstract

Figures in scientific publications are critically important because they often show the data supporting key findings. Our systematic review of research articles published in top physiology journals (n = 703) suggests that, as scientists, we urgently need to change our practices for presenting continuous data in small sample size studies. Papers rarely included scatterplots, box plots, and histograms that allow readers to critically evaluate continuous data. Most papers presented continuous data in bar and line graphs. This is problematic, as many different data distributions can lead to the same bar or line graph. The full data may suggest different conclusions from the summary statistics. We recommend training investigators in data presentation, encouraging a more complete presentation of data, and changing journal editorial policies. Investigators can quickly make univariate scatterplots for small sample size studies using our Excel templates.



OPEN ACCESS

Citation: Weissgerber TL, Milic NM, Winham SJ, Garovic VD (2015) Beyond Bar and Line Graphs: Time for a New Data Presentation Paradigm. PLoS Biol 13(4): e1002128. doi:10.1371/journal. pbio.1002128

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Fig 1. Many different datasets can lead to the same bar graph. The full data may suggest different conclusions from the summary statistics. The means and SEs for the four example datasets shown in Panels B–E are all within 0.5 units of the means and SEs shown in the bar graph (Panel A). *p*-values were calculated in R (version 3.0.3) using an unpaired t-test, an unpaired t-test with Welch's correction for unequal variances, or a Wilcoxon rank sum test. In Panel B, the distribution in both groups appears symmetric. Although the data suggest a small difference between groups, there is substantial overlap between groups. In Panel C, the apparent difference between groups is driven by an outlier. Panel D suggests a possible bimodal distribution. Additional data are needed to confirm that the distribution is bimodal and to determine whether this effect is explained by a covariate. In Panel E, the smaller range of values in group two may simply be due to the fact that there are only three observations. Additional data for group two would be needed to determine whether the groups are actually different.

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Weissberger et al

Only programmers / statisticians can use R

https://pubpeer.com/publications/88FDF1702D12B6237F437DCA47E43A

People use bar-charts because they are in Excel

People use bar-charts because they are in SPSS











Reports

journal homepage: www.elsevier.com/locate/jesp

The effect of auditory versus visual violent media exposure on aggressive behaviour: The role of song lyrics, video clips and musical tone

Heidi I. Brummert Lennings *, Wayne A. Warburton

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ARTICLE INFO

Article history: Received 10 November 2010 Available online 19 February 2011

Keywords: Violent music video clips Violent song lyrics Aggression

ABSTRACT

Five decades of research have shown clear links between exposure to violent visual media and subsequent aggression, however there has been little research that directly compares the effects of exposure to violent visual versus auditory media, or which has experimentally tested the effect of violent song lyrics with musical 'tone' held constant. In the current study 194 participants heard music either with or without lyrics, and with or without a violent music video, and were then given the chance to aggress using the hot sauce paradigm. Musical tone was held constant across groups, and a fifth (control) group had no media exposure at all. Experimental groups, on average, were significantly more aggressive than controls. The strongest effect was elicited by exposure to violent lyrics, regardless of whether violent imagery accompanied the music, and regardless of various person-based characteristics. Implications for theories of media violence and models of aggression are discussed.



(2003) demonstrated that violent lyrics elicited aggressive thoughts Introduction and feelings across a number of studies and musical genres. Fischer More than fifty years of research have produced evidence and Greitemeyer (2006) found that sexually aggressive/misogynistic suggesting that violent visual media exposure has causal links with song lyrics increased aggression towards women among male aggressive behaviour, desensitisation to violence and hostile thinking participants, even when controlling for musical tone. Warburton (Anderson, Berkowitz, et al., 2003; Bushman & Anderson, 2009; et al. (2008) found a positive correlation between violent song lyrics Bushman & Huesmann 2006: Strasburger Wilson & Jordan 2009) and recent acts of physical and indirect aggression. In contrast, a

Contents lists available at ScienceDirect

Journal of Experimental Social Psychology

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- I wrote to the authors asking for the data
- Requests for data and information ignored for four weeks
- At last, MacQuarie University "integrity officer" informs me that authors are forbidden to send me their data
- Results of confidential investigation will perhaps be sent to journal editor ...
- I wrote to journal editors ...



Stapel, Smeesters, ...

Now closer to home ...

Dirk Smeesters, Jia Liu (2011). Journal of Experimental Social Psychology 47, 653–656 The effect of color (red versus blue) on assimilation versus contrast in prime-to-behavior effects.







Intelligent Unintelligent

Fig. 1. Number of correct answers as a function of color, prime, and dimension.





Spot the odd one out!



























Spot the odd one out!





















Statistical Analyses

- semi-parametric) or permutation tests
- method

Anonymous whistleblower later identified to be Uri Simonsohn

• ANOVA F-tests, rejecting for *small* values of the statistic (R.A. Fisher test of "too good to be true")

Validate / calibrate with bootstrap (parametric or



Combination of many tests: R.A. Fisher combination

- Fisher knew the counter-examples to his theorem that maximum likelihood was asymptotically optimal
- The knowledge was suppressed: it would confuse the faithful

Aside, on R.A. Fisher

Statistical Methods for Research Workers

R. A. FISHER, Sc.D., F.R.S.

Permeter's Fallens of Councils and Caster College, Candelalys Hannary Munder, American Datistical Association Chief Statistican, Exhibited Paperjamental Mattine

SOUTH DECOM-REVEND AND EXCAPORE

OLIVER AND DOYD EDINBUXGH: TWEEDDALL COURT. LONDON: 33 FATERNOSTER ROW, EC. 1937



Statistical Priesthood II Sir Ronald on Scientific Inference *

Samenvatting

Ter gelegenheid van het verschijnen van Sir Ronald Fisher's nieuwste boek 1) wordt een kritische beschouwing gegeven van zijn aannemelijkheidstheorie en de theorie van "fiducial inference". Wat de laatste betreft wordt geconstateerd, dat deze theorie, in de vorm waarin zij door Fisher gegeven wordt, fouten bevat, hoewel een interpretatie mogelijk is, die in overeenstemming schijnt te zijn met Fisher's ideeën en die een wiskundig correcte behandeling mogelijk maakt. Daartoe is een duidelijk onderscheid, ook in notatie, nodig tussen stochastische grootheden en getallen. De hier gegeven definitie van stochastische grootheden, die Fisher's fiduciële verdelingen bezitten, kan wellicht een gemeenschappelijke basis vormen, waarop aanhangers en tegenstanders van F is h e r's ideeën tot een beter wederzijds begrip kunnen komen. Een gedeelte van F is h e r's methoden en resultaten kan eveneens gerechtvaardigd worden en "fiducial inference" neemt dan het karakter aan van een eliminatie-methode voor onbekende parameters. Als zodanig heeft deze theorie ongetwijfeld verdiensten, maar het gebied van toepassing is nogal beperkt. Dezelfde resultaten kunnen echter ook bereikt worden langs andere weg, in het bijzonder met behulp van de theorie van betrouwbaarheidsgrenzen.

Bij andere toepassingen echter, die niet gedekt worden door de theorie van Neyman en Pearson, in het bijzonder bij de toets van Behrens-Fisher, heeft de verwarring van stochastische grootheden en getallen tot onherstelbare fouten geleid. Ondanks alle pogingen, Fisher's dikwijls onduidelijke verklaringen in overeenstemming met zijn philosophische gedachtengang te interpreteren, kan geen rechtvaardiging voor deze toepassingen gevonden worden. Daar vroegere kritiek van andere schrijvers geldig blijft, kan er geen twijfel meer bestaan, dat deze toepassing fout is.

Summary

Partly as a critical review of Sir R o n a l d F i s h e r's latest book, partly as an essay, F i s h e r's theory of likelihood and fiducial inference is carefully considered. As to the latter, it is found that in the form presented it contains

door Prof. Dr D. van Dantzig

^{*)} Report SP 59 of the Statistical Department of Het Mathematisch Centrum, Amsterdam. ¹) "Statistical Methods and Scientific Inference", Oliver and Boyd, Edinburough and London

¹) "Statistical Methods and Scientifie 1956, pp. 175, 16 /—.



MEMORY, 2008, 16 (1), 22–28

Psychology Press Taylor & Francis Group

Linking thought suppression and recovered memories of childhood sexual abuse

Elke Geraerts

Maastricht University, the Netherlands, and Harvard University, Cambridge, MA, USA

Richard J. McNally

Harvard University, Cambridge, MA, USA

Marko Jelicic, Harald Merckelbach, and Linsey Raymaekers

Maastricht University, the Netherlands

There are two types of recovered memories: those that gradually return in recovered memory therapy and those that are spontaneously recovered outside the context of therapy. In the current study, we employed a thought suppression paradigm, with autobiographical experiences as target thoughts, to test whether individuals reporting spontaneously recovered memories of childhood sexual abuse (CSA) are more adept at suppressing positive and anxious autobiographical thoughts, relative to individuals reporting CSA memories recovered in therapy, relative to individuals with continuous abuse memories, and relative to controls reporting no history of abuse. Results showed that people reporting spontaneously recovered memories are superior in suppressing anxious autobiographical thoughts, both in the short term and long term (7 days). Our findings may partly explain why people with spontaneous CSA memories have the subjective impression that they have "repressed" their CSA

Geraerts / Merckelbach



Brief Report

Reduced Meta-Consciousness of Intrusions as an Explanation for Recovered Memory Reports

Elke Geraerts^{1, 2}*, Richard J. McNally³, Harald Merckelbach², Anne-Laura van Harmelen⁴, Linsey Raymaekers², & Jonathan W. Schooler⁵ ¹School of Psychology, University of St. Andrews, United Kingdom

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Word Count: 3.404

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Abstract

People with spontaneously recovered memories of childhood sexual abuse (CSA) have been shown to be especially susceptible to underestimating their prior remembering of the abuse events. The current study examined whether this may be explained by a reduced "metaconsciousness" of their intrusions related to those events: That is, are these individuals failing to notice that memories of abuse do come to mind, thereby producing the illusion that they repressed the abuse events for many years? We used an adapted thought-suppression paradigm,





Figure 1. Summation of self-reported and probe-reported negative intrusions across the suppression and expression periods.

The paper includes table with means, sd's, n's





- I asked Geraerts for the data
- She couldn't give it to me because it was property of Maastricht University
- Maastricht/Harvard co-authors wrote to me that they gave permission (they didn't have the data!)
- Journalist wrote in newspaper that Geraerts had agreed to give me the data
- Head of Geraerts' institute forbid it
- At last I did get the data under strict confidentiality conditions

Suppression Negative



But the data is in these graphics, published by Erasmus Univ!





Subject No.

Suppression Positive



Subject No.

Expression Positive



Subject No.

Rebound Negative



Subject No.

Intrusions Negative



Subject No.

Rebound Positive



Subject No.

Intrusions Positive



Subject No.

Suppression, Neg – Pos



Diary, Neg – Pos





Expression, Neg – Pos



Subject No.

The data files are garbage!



Next example











Förster & Denzler





















similar studies

Whistleblower's report at UvA leads to retraction of several papers

- The data is too good to be true
- Could this pattern be caused by QRP's?
- e.g. the file-drawer effect?

• Förster has lost all original records, does not know which assistants when, where, did the experiments

Simonsohn et al: P-curve: A Key To The File Drawer



p-curve results



The file-drawer effect



-

Förster, Act 2



- Has vision on a mountain

During my work on my new research project on "what having does to being" I changed my approach to life completely. I do not further want to chase after publications as was the rule elsewhere. I rather want to create theories from the breadth of my knowledge. I want to dig deeper.. I would like to inspire others with my work, and would rather like to do all the things that I am really interested in. More than other disciplines, social psychology creates ground breaking theories. This needs time, communication with others, it affords risk taking in thinking beyond trends and pragmatic considerations.

will spend the rest of my life on BEING rather than on HAVING.

• Förster declines prestigious Humboldt fellowship

Thus, I will leave the materialistic and soulless production approach in science. And I want to say "Adieu" to 10 cruel years, in which my life was almost completely determined by others. I am going my own way now.





Förster, Act II

- other works written while at UvA
- in part, novel methodology of Klaassen
- R scripts published



UvA commissions confidential investigation into

• Results announced to media; report sent to journals proposing retraction of half a dozen more papers

• Report PKW (Peeters, Klaassen, van der Wiel) uses,





Comments:	10 pages, 2 tables. arXiv admin note: substantial text overlap with
Subjects:	Methodology (stat.ME)
MSC classes:	62F15, 62P15
Cite as:	arXiv:1405.4540 [stat.ME]
	(or arXiv:1405.4540v2 [stat.ME] for this version)
_	https://pubpeer.com/publica
Submission history	
From Chris A	L Klaassen [view email]

From: Chris A. J. Klaassen [View email] [v1] Sun, 18 May 2014 19:19:44 GMT (9kb) [v2] Thu, 19 Mar 2015 13:56:41 GMT (11kb)

ations/5439C6BFF5744F6F47A2E0E9456703


Criticism of Klaassen approach

- Hybrid Bayesian frequentist
- Some ideas from forensic statistics
- Composite alternative ("fraud") vs simple null hypothesis ("honest")
- null hypothesis is point on boundary of alternative
- V = max lik(alternative) / lik(null) is always at least 1
- KPW seem to accept an alpha of 8% "per study"
- "per paper", four honest studies already has 40% chance of getting label "low scientific veracity"

Wrong order!

- Do the science, in public, first!
- taking disciplinary steps...

Where Have All The Flowers Gone? ... When will they ever learn. When will they ever learn.



Only then (perhaps) should management consider

https://www.youtube.com/watch?v=yQ5n6EMgPq0

My advice

- Förster gets his millions from Humboldt
- Research is carefully replicated under tight supervision

And now for something completely different







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	16 Nicholas Cox	24.05
	17 Thomas J. Sargent Department of Economics, New York University (NYU), New York City, New York (USA)	25.36 Top of pa
	18 Paul R. Krugman	26.46

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LUhome 🧕 LuMail M G	Mail É	iCloud 🗋 Blog 🗋 SLUB 🔁 Citrix 🈏 Twitter 🁥 PubPeer 🚽 CUSO ಖ ING 📑 Facebook W Wikipedia W W Author	P TEP »
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	16	Philip Hans Franses Econometrisch Instituut, Faculteit der Economische Wetenschappen, Erasmus Universiteit Rotterdam, Rotterdam, Netherlands	Fop of page 495

← ⊛

Nijkamp affair

- Thesis defence Karima Kourtit (VU) cancelled at last moment June 2013
- Whistleblower finds data anomalies in more papers also with second circle of co-authors
- Gill requests data May 2014
- Gill publishes anonymous whistleblower report June 2014
- "Blitzpromotie" Karima Kourtit June 2014
- Kourtit and Nijkamp accuse Gill of violation of scientific integrity
- Leiden "CWI" proceedings lead to a "settlement out of court"

Nijkamp affair

- It was about quality not about integrity
- "Self-plagiarism" issue was a red-herring
- English translation of whisteblower report now nearly complete
- I still didn't get the data
- The co-authors still didn't see the criticism of their work

Conclusions

• R

- Integrity
- Insurance

Good research practices

- Reproducibility
- Literate programming
- Use R!

When will they ever learn?

- Do the science, in public, first!
- taking disciplinary steps...

Where Have All The Flowers Gone? ... When will they ever learn. When will they ever learn.



Only then (perhaps) should management consider

https://www.youtube.com/watch?v=yQ5n6EMgPq0

- Let's get away from the shaming, witch-hunts, personal integrity issues
- It's about professionalism and professional ethics
- I hope you will think about it ...

Integrity, insurance