

Library & Information Research

Barry Cull

What is right is not always popular, and what is popular is not always right.

- Albert Einstein (1879-1955)

Facts?

Answer this question, from this book.

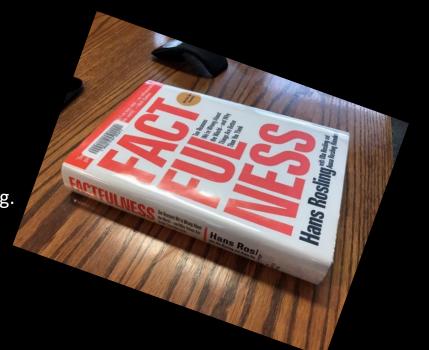
Rosling, H., Rosling, O., & Rönnlund Anna Rosling.

(2018). Factfulness. Flatiron Books.

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Discuss it with your partner!



- 1. In the past 20 years, the proportion of the world population living in extreme poverty has...
 - A. almost doubled.
 - **B.** remained more or less the same.
 - C. almost halved.

Facts?

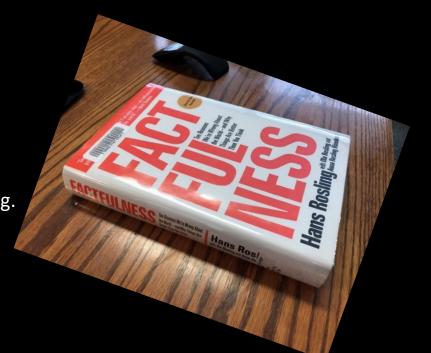
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Discuss it with your partner!



Worldwide, 30-year-old men have spent 10 years in school, on average. How many years have women of the same age spent in school?

- A. 9 years
- **B.** 6 years
- C. 3 years



Knowledge does not jump down people's throats.

You have to seek it.

Dallas Willard,
 Philosopher

Seek and you will find.

- Jesus Christ

2 Types of Published Research Documents

Contribution of light-absorbing impurities in snow to Greenland's darkening since 2009

M. Dumont^{1*†}, E. Brun^{2†}, G. Picard^{3,4}, M. Michou², Q. Libois^{3,4}, J-R. Petit^{3,4}, M. Geyer², S. Morin¹

The surface energy balance and mass balance of the Greenland and B. Josse² the surface energy unance and mass orience of the overenand ice sheet depends on the albedo of snow, which governs the amount of solar energy that is absorbed. The observed ore amount, or source energy unit, is absorbed, 11th observed decline of Greenland's albedo over the past decade⁵⁵ has been decime or ureemand's enough over one pass uncare. The south of attributed to an enhanced growth of show grains as a result of attributed to an emanced growth of show grains as a result of atmospheric warmings³. Satellite observations show that, since actionspheric warming. Satellite observations snow that, since 2009, albedo values even in springtime at high elevations have 2009, aftiedo values even in springtune at tingn nervatuoris nerv been lower than the 2003-2008 average. Here we show, using a numerical snow model, that the decrease in albedo cannot a numerical show mouse, that the decrease in about cannot be attributed solely to grain growth enhancement. Instead, our or analysis of remote sensing data indicates that the springtime anaysas or remove summing unto mulcates that one sportigume darkening since 2009 stems from a widespread increase in the amount of light-absorbing impurities in snow, as well as in the atmosphere. We suggest that the transport of dust from ure agnosphere, we suggest that the transport or uses tront snow-free areas in the Arctic that are experiencing earlier melting of seasonal snow cover as the climate warms may mening or seasonial show cover as the chinace went is uned to be a contributing source of impurities. In our snow model or a contributing source of impurities. In our situm model simulations, a decrease in the albedo of fresh snow by 0.01 samuations, a decrease in the absence or tresh show oy 0.01 leads to a surface mass loss of $27\,\mathrm{G}\,\mathrm{tyr}^{-1}$, which could induce an neaus to a surrace mass ross of £1 Gay 1 , which commitmee an acceleration of Greenland's mass loss twice as large as over the acceleration of Greenatius in the State of t push two occases : require traines in agait-about oring impuritues should therefore be considered in projections of Greenland

The mass loss of the Greenland ice sheet (GriS) has accelerated The mass loss of the screemana fee steet (5113) has accelerated markedly over the past decade in response to both kee dynamics and maniculy over the past uscale in response to form the dynamics and surface melt increase. Grifs mass loss is expected to raise global sea surface men uncrease. Unto mass loss is expected to raise guoda sea level by more than 20 cm by 2100 (ref. 5) and is consequently of tremendous importance for the entire population of the Earth, Over the period 1992-2010, a mean annual GrlS surface mass balance the period 1996-2019, a likeal almina 9319 Satisfic moss manusculerrease of 12,9 Gryr | was observed. The recent Gris surface mans balance decrease has been linked not only to changes in the unss, namnce uncrease mas usen museu not only to cataliges in the Arctic atmospheric circulation but also to local feedbacks involving

New ameno".

Remotely sensed observations from the spaceborne MoDerate Kemotery sensed observations from the spaceborne MoDierate resolution imaging Spectroradhometer (MODIS) have shown that the GHS broadband albedo has decreased significantly over the past absorbed histories and appropriation around "Price Approaches Appelled Tools and Appropriation around "Price Approaches Applications and Application around a price around a price and Application around a price around a price and Application around a price arou ure sales or outside an electron and accumulation areas. This decrease has been attributed mainly to warmer conditions caused by anomalous oven autioused manny to warmer commons causes by anomalous atmospheric circulation patterns, and has been amplified by the atmospheric circulation patterns, and has been automated by the intrinsic snow albedo feedback? Snow is indeed involved in several lective snow overlying dark feedbacks in the climate system the presence or absence of high surfaces such as ground or deb an intrinsic albedo feedback. enhance snow grain growth,

snow grain growth. This feedback is particularly efficient when

rrace men occurs.

The amplification of the albedo decrease by the intrinsic snow. altee annamentum os une aucesto uncarease oy une manimies suovi alteedo feedback largely explains extreme meli records in summer surface melt occurs'. ameun seeunas, sargesy espianis extreme men securus in summer 2010 and 2012 (refs.1.2). However, a drastic snow albedo anomaly art devations higher than 2,000 m is persistent over the whole person 2009-2013 in spring! (Fig. 1), even during periods with now Colder than normal air temperatures. Winter and spring 20 the coldest since 2000 (ref. 11) and exhibited snow accur exceeding normals'. Hence another factor must be consi explain the springtime anomaly, Year-to-year memory can be ruled out. as a few centimetree of freeh anomaly anomaly and the springtime anomaly. esthant the springrame anomay, rear-to-year memory can occument out, as a few centimetres of fresh snow in winter are sufficient or as a rew centimeries of fresh show in without the previous summer of cover the old show that evolved during the previous summer to cover me our surve mat evoneur urang me previous summer and to reset the albedo to the high values characteristic of fresh and to reset the autent to the right values characteristic of resh snow (Supplementary Fig. 1c). To determine this factor, we ran the snow (Supplementary 118, 10), to use time this securi, we can use model Crocus's which predicts the evolution of grain size. albedo and other snow properties and is driven by near-surface nuevo ano oune, suove properties ano is surren o₇ nees-summe meteorological data extracted from surface fields of a meteorological menunnyana uaraesaracseummunaeunausora menoraogica reanalysis (Methods). Crocus explicitly takes into account the remanyase (ARCHOUR), CJOCAS expircitly takes into account the processes involved in the intrinsic snow albedo feedback. Figure 2 processes involved in the intrinsic show shear) recursors. The shows May-June broadband albedo averaged over the ice sheet SHOWN DAY-JUNE UPDATED AND METERS OF THE RESIDENT ABOVE 2,000 m a.s.l. that is, leaving out areas prone to regular autore 4,000 m 25.4.—Inar 18, seaving our areas priore to regular strface mell—using MODIS observations and results from Croccus assuming negligible impurity content in snow. The difference assuming negargate impurity content in since, the outcomes between Crocus and MODIS broadband albedo over the 2003–2012 period (Supplementary Fig. 7) is also shown. Although in general show similar year-to-year variations,

between the two exhibits a statistically significant between the two exhibits a statistically significate $(p \text{ value} < 10^{-6})$ in 2009, when it decreased market that, from 2009 onwards, the intrinsic snow albedo tee by meteorological conditions alone is not sufficient to explain the Current measures in the CALLS discuss in Springer Light-absorbing impurities, hereafter referred to simply as impuobserved decrease in the GrlS albedo in spring.

Light-absorong inputities, neteatier trieffer to strapty as uniform rities, such as 5004, mineral dust or micro-organisms (cyanobactra nnessauli as sura, namena unas or namero organisma ceptanometera and algae?) present in snew are known to decrease the albedo in the visible part of the solar spectrum. This usually results in a strong one source passes the same operation. This usually results in a strong increase in the energy absorbed by snow even for a low impurity increase in the energy absorbed by show even for a now impurity content. We hypothesize that the behaviour depicted in Figs 1 contem..., we hypothesize that the constraint acptaces in English and 2 was caused by a widespread increase in impurity content in and a was based by a widespread mersor in industry content in snow. Among impurities, soot is by far the most efficient absorber. of soot has approximately the same effect on albedo as 1.00 Fig S⁻¹ of dust at 500 nm (ref. 9), with variations depending on snow properties and dust particle size and refractive index. Recent SHOW PROPERLIES AND WHIS PATTICES MAY AND RETRIEVED HAND, RECEINING REPORT TO THE STORY OF THE S ments in Greenman have shown that the sore come, the first life of the life of

TURE GEOSCIENCE DOI: 10.1038/NGEO2180

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The snow spectral abodo is computed as a function of the physical properties of studies since. These original features have been used widely in many previous studies of the Grifs surface mass bullenge to.

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Acknowledgements

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Additional information

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Supplementary information is real-like in the online version of the paper. Repetats and
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P-SIUJI, Hande, "Unit, Seriode, Apes, SUSE UMA DISS, Serioda combuted equally to this work, "e-mail: marie dumores mate of © 2014 Macmillan Publishers Limited. All rights reserved. NATURE GEOSCIENCE | VOL.7 | ILBY 2014 | WWW.Ashire.com/*



Has the Earth's sixth mass extinction already arrived?

Anthony D. Barnosky^{1,2,3}, Nicholas Mar Susum iya^{1,2,3}, Guinevere ogan^{1,2} i age Que Charles Mo Jenny Guire nily L sey^{1,2}, Kaitlin C. Yuii Ben 1 8 abeth err

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over the last 3.6 billion years, some 99% are gone! That shows how very common extinction is, but normally it is balanced by speciation. The balance wavers such that at several times in life's history extinction rates appear somewhat elevated, but only five times qualify or 'mass estimation' status near the end of the Ordovician, Devonian, Permian, Triastic and Cretaceous Periode^{3,5}. These are the 'Big Five' mass extinctions (two are technically 'mass depletions'). Postgreams extinctions (two are techni

f the four billion species estimated to have evolved on the Earth over the last 3.5 billion years, some 99% are gone. That shows were common extinction is, but normally it is balanced by in. The balance wavers such that at several times in life's history on rates appear somewhat devated, but only live times quality as extinction 'status near the end of the Ordovictan, Devonian, in companying millions of years' 21.

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Only counds of taxa (primarily those with fossilizable hard parts) and a ded subset of the Earth's biomes (generally in temperate latit

Table 1 | The 'Big Five' mass extinction events

EVONT	Proposed causes
The Ordovician event ^{64 ss} ended ~443 Myr ago; within 3.3 to 1.9 Myr 57% of genera were lost, an estimated 86% of species.	Onset of alternating glacial and interglacial episodes; repeated marine transgressions and regressions. Uplift and weathering of the Appalachians affecting at mospheric and ocean chemis Sequestration of CO ₂ .
The Devenian event ^{46467 70} ended 359 Myr ro, within 29 to 2 Myr 35% of genera were lost, and make 3 of species.	Clobal cooling (followed by global warming) by to the case state and plants associated weathering pseudogenesis, and because of 1 CO ₂ , Evolution deep-will and the spread of a not state of the state

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A bolice impact bids may have been declining owing to a variety of causes. Decan natato 75% of species.

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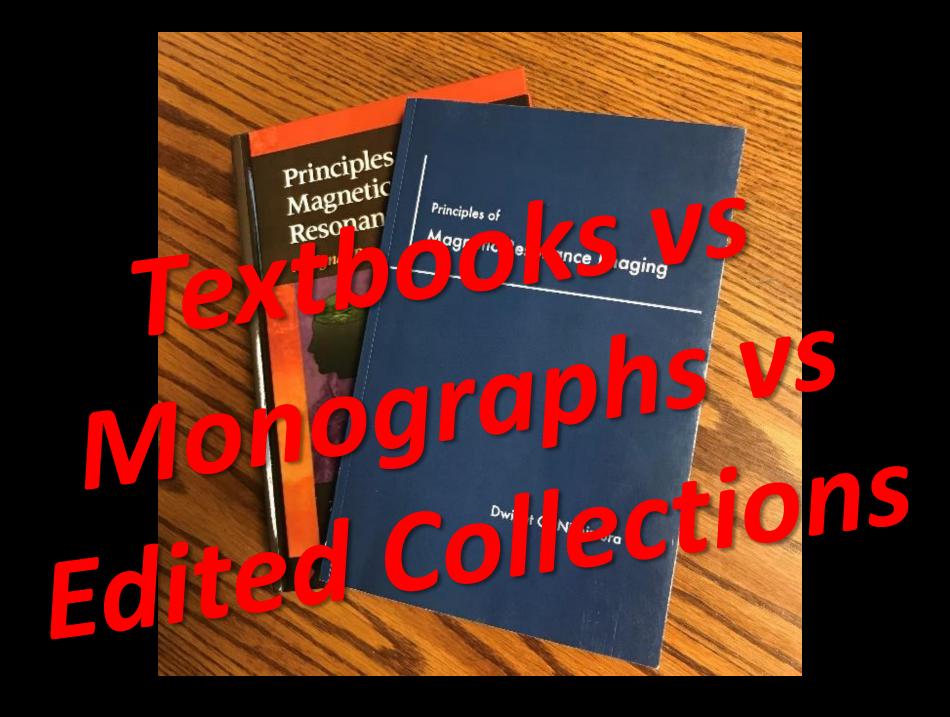
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Myr, million years, Kyr, thousand years

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Oppartment of Integracine Biology, University of California, Settletey, California 44720. USA, *University of California Moseum of Patentology, California, USA *University of California Moseum of Versitaria Zoology, California, USA *University of California USA (Section 2004), California Moseum of Versitaria Zoology, California, USA *University of California USA (Section 2004), California USA (Sectio







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CLINICAL RESEARCH STUDY

THE AMERICAN JOURNAL of MEDICINE ®

COVID Vaccine Hesitancy and Risk of a Traffic Crash

Donald A. Redelmeier, MD, FRCPC, MSHSR, FACP, a,b,c,d,e Jonathan Wang, MMASc,b,c Deva Thiruchelvam, MSca,c

^aEvaluative Clinical Sciences, Sunnybrook Research Institute, Toronto, Ont, Canada; ^bDepartment of Medicine, University of Toronto, Ont, stitute for Clinical Evaluative Sciences (ICES), Toronto, Ont, Canada; ^dDivision of General Medicine; ^eCenter for uding Injury Prevention Practice Education Research, Sunnybrook Health Sciences (Tere, Toronto, Ont, Canada).

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contribute to traffic safety. We tested whether COVID vaccination was associated with the risks of a traffic crash.

METHODS: We conducted a population-based longitudinal cohort analysis of adults and determined COVID vaccination status through linkages to individual electronic medical records. Traffic crashes requiring emergency medical care were subsequently identified by multicenter outcome ascertainment of all hospitals in the region over a 1-month follow-up interval (178 separate centers).

RESULTS: A total of 11,270,763 individuals were included, of whom 16% had not received a COVID vaccine and 84% had received a COVID vaccine. The cohol counted for 6682 traffic crashes during following Unvaccinated individuals accounted for 1682 traffic crashes (25%) equal to a 72% increased relative reased traf to diverse ive risk asso vas simil increase a al to a adjus location, 0.001). The increase and medical interval, 4 gnoses confide other vaccin were validated in supplementary analyses of crossover cases, propensity scores, and additional controls.

CONCLUSIONS: These data suggest that COVID vaccine hesitancy is associated with significant increased risks of a traffic crash. An awareness of these risks might help to encourage more COVID vaccination. © 2022 Elsevier Inc. All rights reserved. • The American Journal of Medicine (2022) 000:1–10

KEYWORDS: COVID-19; Human factors; Judgment and reasoning; Motor vehicle accident; Traffic crash; Vaccine hesitancy

DINOSAURS DIDN'T READ. NOW THEY ARE EXTINCT

Evaluation exercise #2

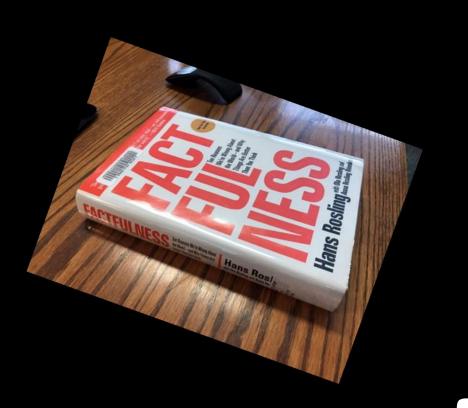
The Unwisest Idea on Campus: Commentary on Lilienfeld (2017)

Jonathan Haidt

New York University Stern School of Business

The term microaggression has swept through the academy in English speaking countries in the last two or three years. Lilienfeld (2017, this issue) has done the academy a great service in analyzing the concept and showing why it is not ready to serve as the scientific basis for new policies and programs being rolled out at many universities. In this commentary, I will extend Lilienfeld's analysis and show why the "microaggression program" (as I'll call the combination of theory and on-campus applications) is more damaging and less salvageable than Lilienfeld suggests. In fact, it may be the least wise idea one can find on a college campus today....





.R673





Knowledge does not jump down people's throats.

You have to seek it.

Dallas Willard,
 Philosopher

Where do you think best?

4 places to find published research...

- 1. Google.....for finding...everything! (good & BAD)
- 2. Google Scholar...known items (but there's a lot of BAD)

3. UNB WorldCat...books, articles+

4. Scopus, SocINDEX, etc....MANY MORE articles+ (comprehensive)

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