

# A List of Useful Links

## Videos, Blogs, and Presentations

1. Information quality in the golden age of analytics. JMP analytically speaking series. Interview ([https://www.jmp.com/en\\_us/events/ondemand/analytically-speaking/quality-assurance-in-the-golden-age-of-analytics.html](https://www.jmp.com/en_us/events/ondemand/analytically-speaking/quality-assurance-in-the-golden-age-of-analytics.html)) and blog post (<https://community.jmp.com/t5/JMP-blog-authoring/Information-quality-in-the-golden-age-of-analytics/ba-p/66903>).
2. From quality by design (QbD) to information quality (InfoQ): a journey through science and business analytics. Plenary talk at JMP Summit Prague. Starts at 5:20 (<https://community.jmp.com/t5/Discovery-Summit-Europe-2017/Plenary-Session-From-Quality-by-Design-to-Information-Quality-A/ta-p/37537>).
3. The Real Work of Data Science: How to Turn Data into Information, Better Decisions, and Stronger Organizations, The ENBIS2018 Box Medal Lecture. <https://videos.univ-lorraine.fr/index.php?act=view&id=6456&fbclid=IwAR3ZnR->
4. The SPCLive system for statistical process control in assembly production. <https://www.youtube.com/watch?v=E7W99sCYYos>. See also <https://vimeo.com/285180512>.
5. A life cycle view of statistics. JSM18 panel. <https://blogisbis.wordpress.com/2018/08/21/panel-discussion-on-a-life-cycle-view-of-statistics-at-the-jsm-2018>.
6. What does big data mean for business? <https://www.youtube.com/watch?v=qEmIngJDOIE&t=221s>.
7. Two moments that matter in data. [https://www.youtube.com/watch?v=dBpHHAG\\_d9E](https://www.youtube.com/watch?v=dBpHHAG_d9E).
8. If your data is bad, your machine learning tools are useless. Video #1 (<https://www.youtube.com/watch?v=efRKika4SOE&t=10s>), video #2 (<https://www.youtube.com/watch?v=woaL40K6xyA>), video #3 (<https://www.youtube.com/watch?v=rnjmlc4MekI&t=23s>), video #4 (<https://www.youtube.com/watch?v=HS8SHzo9Vvk>), video #5 (<https://www.youtube.com/watch?v=AGSpsZDgzRE&t=9s>), video #6 (<https://www.youtube.com/watch?v=CdIM1QQGVXg&t=83s>), video #7 ([https://www.youtube.com/watch?v=iXw6f\\_mfyCo&t=1s](https://www.youtube.com/watch?v=iXw6f_mfyCo&t=1s)).

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*The Real Work of Data Science: Turning Data into Information, Better Decisions, and Stronger Organizations*, First Edition. Ron S. Kenett and Thomas C. Redman.

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Companion website: [www.wiley.com/go/kenett-redman/datascience](http://www.wiley.com/go/kenett-redman/datascience)

9. The Friday afternoon measurement for data quality. <https://www.youtube.com/watch?v=X8iacfMX1nw&t=22s>.
10. Will bad data make bad robots? <https://www.youtube.com/watch?v=JgReisW0hBw>.
11. An outlook on data science. [https://mathesia.com/home/Mathesia\\_Outlook\\_2019.pdf](https://mathesia.com/home/Mathesia_Outlook_2019.pdf).

## Articles

### *Data Science in Global Companies*

#### **“Data science at Alibaba.”**

<https://blogsibis.wordpress.com/2017/11/16/data-science-at-alibaba>.

#### **“How Pirelli is becoming data driven.”**

<https://www.pirelli.com/global/en-ww/life/how-pirelli-is-becoming-data-driven>.

#### **“Why you’re not getting value from your data science.”** December 7, 2016.

<https://hbr.org/2016/12/why-youre-not-getting-value-from-your-data-science>.

### *On Deep Learning and Artificial Intelligence*

#### **“Artificial intelligence pioneer says we need to start over.”**

<https://www.axios.com/artificial-intelligence-pioneer-says-we-need-to-start-over-1513305524-f619efbd-9db0-4947-a9b2-7a4c310a28fe.html>.

#### **“Deep learning: a critical appraisal.”**

<https://arxiv.org/abs/1801.00631>.

#### **“Getting value from machine learning isn’t about fancier algorithms – it’s about making it easier to use.”** March 6, 2018.

<https://hbr.org/2018/03/getting-value-from-machine-learning-isnt-about-fancier-algorithms-its-about-making-it-easier-to-use>.

#### **“IBM pitched its Watson supercomputer as a revolution in cancer care. It’s nowhere close.”** September 5, 2017.

<https://www.statnews.com/2017/09/05/watson-ibm-cancer>.

### *Data and Data Integration*

#### **“A Cambridge professor on how to stop being so easily manipulated by misleading statistics.”**

<https://qz.com/643234/cambridge-professor-on-how-to-stop-being-so-easily-manipulated-by-misleading-statistics>.

#### **“Data is not information.”**

[https://www.technologyreview.com/s/514591/the-dictatorship-of-data/?\\_ga=2.105454147.1311780712.1522672939-1679466071.1522672939](https://www.technologyreview.com/s/514591/the-dictatorship-of-data/?_ga=2.105454147.1311780712.1522672939-1679466071.1522672939).

#### **“Divide & recombine (D&R) with DeltaRho for big data analysis.”**

[https://ww2.amstat.org/meetings/sdss/2018/onlineprogram/AbstractDetails.cfm?AbstractID=304537&utm\\_source=informz&utm\\_medium=email&utm\\_campaign=asa&zs=IVpOe1&\\_zl=TX2b.4](https://ww2.amstat.org/meetings/sdss/2018/onlineprogram/AbstractDetails.cfm?AbstractID=304537&utm_source=informz&utm_medium=email&utm_campaign=asa&zs=IVpOe1&_zl=TX2b.4).

#### **“Social media big data integration: a new approach based on calibration.”**

<https://www.sciencedirect.com/science/article/pii/S0957417417308667>.

### *Advanced Manufacturing, Vegetation, and Global Warming*

#### **“A road map for applied data sciences supporting sustainability in advanced manufacturing: the information quality dimensions.”**

<https://www.sciencedirect.com/science/article/pii/S2351978918301392>.

**“Vegetation intensity throughout the year for Africa.”**

[https://www.reddit.com/r/dataisbeautiful/comments/80o1ah/vegetation\\_intensity\\_throughout\\_the\\_year\\_for](https://www.reddit.com/r/dataisbeautiful/comments/80o1ah/vegetation_intensity_throughout_the_year_for).

**“What’s really warming the world.”** June 24, 2015.

<https://www.bloomberg.com/graphics/2015-whats-warming-the-world>.

*On Statistics and Academia***“Academics can change the world – if they stop talking only to their peers.”**

[https://theconversation.com/academics-can-change-the-world-if-they-stop-talking-only-to-their-peers-55713?utm\\_source=twitter&utm\\_medium=twitterbutton](https://theconversation.com/academics-can-change-the-world-if-they-stop-talking-only-to-their-peers-55713?utm_source=twitter&utm_medium=twitterbutton).

**“For survival, statistics as a profession needs to provide added value to fellow scientists or customers in business and industry.”**

<http://www.statisticsviews.com/details/feature/4812131/For-survival-statistics-as-a-profession-needs-to-provide-added-value-to-fellow-s.html>.

**“Psychology journal editor asked to resign for refusing to review papers unless he can see the data.”**

<https://boingboing.net/2017/03/02/psychology-journal-editor-asked.html>.

*On p Values***“p hacking.”**

[https://www.methodspace.com/primer-p-hacking/?\\_ga=2.153362040.1311780712.1522672939-1679466071.1522672939](https://www.methodspace.com/primer-p-hacking/?_ga=2.153362040.1311780712.1522672939-1679466071.1522672939).

**“To p or not to p – my thoughts on the ASA Symposium on Statistical Inference.”**

<https://blogisbis.wordpress.com/2017/10/24/to-p-or-not-to-p-my-thoughts-on-the-asa-symposium-on-statistical-inference>.

*Experiments***“I placed too much faith in underpowered studies:’ Nobel Prize winner admits mistakes.”**

<https://retractionwatch.com/2017/02/20/placed-much-faith-underpowered-studies-nobel-prize-winner-admits-mistakes>.

**“In a big data world, don’t forget experimentation.”** May 8, 2013.

<http://blogs.hbr.org/2013/05/in-a-big-data-world-dont-forge>.

**“A refresher on randomized controlled experiments.”** March 30, 2017.

<https://hbr.org/2016/03/a-refresher-on-randomized-controlled-experiments>.

**“The surprising power of online experiments.”** September 2017.

<https://hbr.org/2017/09/the-surprising-power-of-online-experiments>.

*Statistical Potpourri***“Censor bias.”**

[https://medium.com/@penguinpress/an-excerpt-from-how-not-to-be-wrong-by-jordan-ellenberg-664e708cfc3d?\\_ga=2.119218121.1311780712.1522672939-1679466071.1522672939](https://medium.com/@penguinpress/an-excerpt-from-how-not-to-be-wrong-by-jordan-ellenberg-664e708cfc3d?_ga=2.119218121.1311780712.1522672939-1679466071.1522672939).

**“Cherry picking.”**

[https://www.economicshelp.org/blog/21618/economics/cherry-picking-of-data/?\\_ga=2.110836549.1311780712.1522672939-1679466071.1522672939](https://www.economicshelp.org/blog/21618/economics/cherry-picking-of-data/?_ga=2.110836549.1311780712.1522672939-1679466071.1522672939).

**“The Hawthorne effect.”**

[https://www.economist.com/node/12510632?\\_ga=2.182730470.1311780712.1522672939-1679466071.1522672939](https://www.economist.com/node/12510632?_ga=2.182730470.1311780712.1522672939-1679466071.1522672939).

**“Overfitting.”**

[https://www.kdnuggets.com/2014/06/cardinal-sin-data-mining-data-science.html?\\_ga=2.144900084.1311780712.1522672939-1679466071.1522672939](https://www.kdnuggets.com/2014/06/cardinal-sin-data-mining-data-science.html?_ga=2.144900084.1311780712.1522672939-1679466071.1522672939).

**“A refresher on regression analysis.”** November 4, 2015.

<https://hbr.org/2015/11/a-refresher-on-regression-analysis>.

**“A refresher on statistical significance.”** February 16, 2016.

<https://hbr.org/2016/02/a-refresher-on-statistical-significance>.

**“Selection bias.”**

[https://www.khanacademy.org/math/statistics-probability/designing-studies/sampling-and-surveys/a/identifying-bias-in-samples-and-surveys?\\_ga=2.178468836.1311780712.1522672939-1679466071.1522672939](https://www.khanacademy.org/math/statistics-probability/designing-studies/sampling-and-surveys/a/identifying-bias-in-samples-and-surveys?_ga=2.178468836.1311780712.1522672939-1679466071.1522672939).

**“Simpson’s paradox.”**

[https://www.brookings.edu/blog/social-mobility-memos/2015/07/29/when-average-isnt-good-enough-simpsons-paradox-in-education-and-earnings/?\\_ga=2.114356423.1311780712.1522672939-1679466071.1522672939](https://www.brookings.edu/blog/social-mobility-memos/2015/07/29/when-average-isnt-good-enough-simpsons-paradox-in-education-and-earnings/?_ga=2.114356423.1311780712.1522672939-1679466071.1522672939).

**“Spurious correlations.”**

[http://www.tylervigen.com/spurious-correlations?\\_ga=2.80296535.1311780712.1522672939-1679466071.1522672939](http://www.tylervigen.com/spurious-correlations?_ga=2.80296535.1311780712.1522672939-1679466071.1522672939).