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68. Schiold, Milo (2015a). What is Wrong with THE Introductory Statistics Course? USCOTS invited presentation. Copy at [www.StatLit.org/pdf/2015-Schiold-USCOTS.pdf](http://www.StatLit.org/pdf/2015-Schiold-USCOTS.pdf)
69. Schiold, Milo (2015b). Statistical Inference for Managers. *ASA Proceedings of the Section on Statistical Education*. P. 3032-3046. Copy at [www.StatLit.org/pdf/2015-Schiold-ASA.pdf](http://www.StatLit.org/pdf/2015-Schiold-ASA.pdf)
70. Schiold, Milo (2016). Stat 102: Social Statistics for Decision Makers. Invited paper IASE Berlin Roundtable, Conference *Social Statistics*.. Copy at [www.StatLit.org/pdf/2016-Schiold-IASE.pdf](http://www.StatLit.org/pdf/2016-Schiold-IASE.pdf)
71. Schiold, Milo (2016b) Augsburg Students Evaluations of STAT 102. ASA JSM Proceedings Stat Ed. Copy at [www.StatLit.org/pdf/2016-Schiold-ASA.pdf](http://www.StatLit.org/pdf/2016-Schiold-ASA.pdf)
72. Schiold, Milo (2017). GAISE 2016 Promotes Statistical Literacy. Invited Essay. *Statistics Education Research Journal*, 16(1), 50-54. Copy at [www.StatLit.org/pdf/2017-Schiold-SERJ.pdf](http://www.StatLit.org/pdf/2017-Schiold-SERJ.pdf)

**BOOKS:**

Schiold, Milo (2005-2011). *Statistical Literacy: Seeing the Story Behind the Statistics*. See [www.StatLit.org/Schiold.htm](http://www.StatLit.org/Schiold.htm)

**WEBSITE:**

Schiold, Milo (2003-present). *Statistical Literacy Website*: Schiold is the editor, webmaster and owner of the world's largest website dedicated exclusively to statistical literacy. He selects all the materials and has authored a yearly StatLit News: a compendium of grants, books, articles and activities related to Statistical Literacy. See [www.statlit.org/1StatLitNews.htm](http://www.statlit.org/1StatLitNews.htm). In 2016, this website had more than 165,000 page views (from 70 pages), 280,000 visits and 470,000 downloads (from 841 papers and 376 slideshows).



**WORKSHOPS:**

Schiold, Milo (2000). Teaching Conditional Thinking Using Ratios at the Western Statistics Teachers Conference in Colorado. Copy at [www.StatLit.org/pdf/2000Schiold-WSTC1-Notes.pdf](http://www.StatLit.org/pdf/2000Schiold-WSTC1-Notes.pdf)

**AUDIO:**

Schiold, Milo (2014). Two Big Ideas for Teaching Big Data: Coincidence and Confounding. ECOTS invited webinar (26 minutes). At <https://www.causeweb.org/ecots/ecots14/35/>

Schiold, Milo and Marc Isaacson (2012). A Second Statistics Course is Needed. What should it be? At <https://www.causeweb.org/ecots/ecots12/breakouts/7/>

**VIDEOS:**

Schiold, Milo (2015). Statisticians: Making our World a Better Place. USCOTS video (4.5 minutes). See [www.statlit.org/swf/2015-Schiold-USCOTS-AIDS.mp4](http://www.statlit.org/swf/2015-Schiold-USCOTS-AIDS.mp4)

Schiold, Milo (2012). Coincidence in Runs and Clusters. E-COTS web-based video presentation. See [www.statlit.org/swf/2012Schiold-Coincidence.swf](http://www.statlit.org/swf/2012Schiold-Coincidence.swf)

**STATISTICS-RELATED RESEARCH PAPERS**

Schiold, Milo (1996). Review of *The Evolution With Age of Probabilistic, Intuitively Based, Misconceptions* by Efraim Fischbein and Ditzza Schnarch. Presented at RSS Centre for Statistical Education, Nottingham. See [www.StatLit.org/pdf/1996-Schiold-Review-Fischbein-Schnarch.pdf](http://www.StatLit.org/pdf/1996-Schiold-Review-Fischbein-Schnarch.pdf)

Schiold, Milo (1997). Philosophical Issues in Statistical Inference. Augsburg Philosophy Colloquium. See [www.StatLit.org/pdf/1997Schiold-Augsburg.pdf](http://www.StatLit.org/pdf/1997Schiold-Augsburg.pdf)

Schiold, Milo (1997). Median Overlap, Misclassification and R-square. Technical Paper. See [www.StatLit.org/pdf/1997-Schiold-Median-Overlap.pdf](http://www.StatLit.org/pdf/1997-Schiold-Median-Overlap.pdf)

Schiold, Milo (1997). Statistical Literacy, QR and QL. Technical/Background Paper. See [www.StatLit.org/pdf/1997-Schiold-Statistical-Literacy-QR-QL.pdf](http://www.StatLit.org/pdf/1997-Schiold-Statistical-Literacy-QR-QL.pdf)

Schiold, Milo (1999). Notes on Tufte's Presentation. Copy at [www.StatLit.org/pdf/1999-Tufte-presentation-Notes-by-Schiold.pdf](http://www.StatLit.org/pdf/1999-Tufte-presentation-Notes-by-Schiold.pdf)

Schiold, Milo (1999). ASA Ethics Committee Guidelines: Comments & Recommendations. JSM. Copy at [www.StatLit.org/pdf/1999-Schiold-ASA-Ethics-Committee.pdf](http://www.StatLit.org/pdf/1999-Schiold-ASA-Ethics-Committee.pdf)

Schiold, Milo (2015). Statistical Literacy Roundtable Summary. USCOTS Roundtable. Organized and chaired by Milo Schiold. [www.statlit.org/pdf/2015-USCOTS-Statistical-Literacy-Roundtable.pdf](http://www.statlit.org/pdf/2015-USCOTS-Statistical-Literacy-Roundtable.pdf)

**EXCEL DEMONSTRATION WORKSHEETS**

1. Schiold, Milo (2010). Excel Demo of Marilyn vos Savant's Monty-Hall Three-Door problem. Demo at [www.statlit.org/Excel/2010-Schiold3Door-Demo.xls](http://www.statlit.org/Excel/2010-Schiold3Door-Demo.xls)
2. Schiold, Milo (2010). Excel Demo of Marilyn vos Savant's Four-Envelope problem. Excel demo at [www.statlit.org/Excel/2010Schiold4EnvelopeDemoSavant.xls](http://www.statlit.org/Excel/2010Schiold4EnvelopeDemoSavant.xls)
3. Schiold, Milo (2012). Excel Demo of the longest run in flips of a fair coin. Demo worksheet at [www.statlit.org/Excel/2012Schiold-Runs.xls](http://www.statlit.org/Excel/2012Schiold-Runs.xls)
4. Schiold, Milo (2012). Excel Demo of unlikely patterns in a two-dimensional grid with 1 chance in 100 grains of rice. Demo worksheet at [www.statlit.org/Excel/2012Schiold-Rice.xls](http://www.statlit.org/Excel/2012Schiold-Rice.xls)
5. Schiold, Milo (2012). Excel Demo of von Mises Birthday problem. Demo worksheet at [www.statlit.org/Excel/2012Schiold-Bday.xls](http://www.statlit.org/Excel/2012Schiold-Bday.xls)
6. Schiold, Milo (2016). Excel Demo of the relationship between sample means and medians when sampling from a uniform or a Normal distribution. Demo worksheet at [www.statlit.org/Excel/2016-Schiold-Mean-Median=Compare-1.xlsx](http://www.statlit.org/Excel/2016-Schiold-Mean-Median=Compare-1.xlsx)

**POLICY PROPOSALS, GRANT APPLICATIONS AND MISC.**

1. Schiold, Milo (1999). ASA Ethical Guidelines: Comments and Recommendations. ASA Committee on Professional Guidelines. See [www.statlit.org/pdf/1999-Schiold-ASA-Ethics-Committee.pdf](http://www.statlit.org/pdf/1999-Schiold-ASA-Ethics-Committee.pdf)
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5. Schiold, Milo (2006). NSF Grant Proposal: Developing a Statistical Literacy Turnkey Training System. 2006 NSF. Copy at [www.statlit.org/pdf/2006-Schiold-NSF.pdf](http://www.statlit.org/pdf/2006-Schiold-NSF.pdf)
6. Schiold, Milo (2014a). PKAL-TIDES Grant Proposal. [www.statlit.org/pdf/2014-Schiold-PKAL.pdf](http://www.statlit.org/pdf/2014-Schiold-PKAL.pdf) or at [www.StatLit.org/pdf/2014-Schiold-PKAL-TIDES-Proposal.pdf](http://www.StatLit.org/pdf/2014-Schiold-PKAL-TIDES-Proposal.pdf)
7. Schiold, Milo (2014b). NSF IUSE Grant Proposal. At [www.statlit.org/pdf/2014-Schiold-NSF.pdf](http://www.statlit.org/pdf/2014-Schiold-NSF.pdf) Cover page at [www.StatLit.org/pdf/2014-Schiold-NSF-IUSE-Proposal.pdf](http://www.StatLit.org/pdf/2014-Schiold-NSF-IUSE-Proposal.pdf)
8. Schiold, Milo (2015a). USCOTS 2015 Lifetime Achievement Award Nomination Packet. [www.statlit.org/pdf/2015-USCOTS-Schiold-Lifetime-Nomination-Packet.pdf](http://www.statlit.org/pdf/2015-USCOTS-Schiold-Lifetime-Nomination-Packet.pdf)
9. Schiold, Milo (2015b). Nomination for the ASA-Pearl 2015 Causality Award. [www.statlit.org/pdf/2015-Schiold-Pearl-Causality-Award-Submission.pdf](http://www.statlit.org/pdf/2015-Schiold-Pearl-Causality-Award-Submission.pdf)
10. Schiold, Milo (2015c). Wiley Textbook proposal: Practical Statistics for Professionals. [www.statlit.org/pdf/2015-Schiold-Wiley-Book-Proposal.pdf](http://www.statlit.org/pdf/2015-Schiold-Wiley-Book-Proposal.pdf)

**SUMMARIZE DATA IN CHARTS AND TABLES:**

- XL1A: Use nominal frequency data to create pie & bar charts. [Output](#) [Slides](#) [Input](#)
- XL1B: Use nominal pivot-table data to create pie & bar charts: [Output](#) [Input](#)
- XL1C: Create time-based line graphs. Linear and Log display. [Output](#) [Slides](#) [Input](#)
- XL1D: Create six different two-way Pivot tables. [Demo](#) [Output](#). [Slides](#) [Data](#) [Input](#).

**MODEL DATA USING EXCEL** [Pulse dataset](#)

- XL2A Chart Trendline: Linear 1Y1X (3 graphs) [Slides](#)
- XL2B Chart Trendline: Non-Linear 1Y1X (7 graphs) [Slides](#)
- XL2C Chart Trendline: Linear 2Y1X (4 graphs) [Slides](#)
- XL2D Chart Trendline: Linear 3factor 1Y1X (Pivot table, 2 graphs) [Slides](#)
- XL3A: Toolpak Regression: Linear (5 graphs) 2 predictors. QQB: [Output](#) [Slides](#) [Input](#)
- XL4B: Logistic Regression 1Y1X (Schild OLS nudged). [Demo](#) [Slides](#) [Input](#)
- XL4C: Logistic Regression 1Y2X (Schild OLS nudged). [Demo](#) [Slides](#) [Input](#)

**CREATE DISCRETE DISTRIBUTIONS USING EXCEL:**

- XL4A: Create Binomial, Hyper geometric and Poisson. [Output](#) [Slides](#) [Input](#)

**CREATE LOG-NORMAL DISTRIBUTIONS (GIVEN MEAN AND MEDIAN):**

- XL5A: Create distribution of Subjects: [Output](#). [Slides](#) [Data](#) [Input](#)
- XL5B: Create distribution of Subjects & Incomes: [Output](#). [Slides](#) [Data](#) [Input](#)

**CREATE HISTOGRAMS AND SAMPLING DISTRIBUTIONS USING EXCEL:**

- XL3B: Use Toolpak HISTOGRAM command. [Output](#) [Slides](#) [Input](#)
- XL3C: Use COUNTIF and FREQUENCY functions. [Output](#) [Slides](#) [Input](#)

**CREATE HISTOGRAMS AND SAMPLING DISTRIBUTIONS USING EXCEL:**

- Create sampling distributions for a single die using COUNTIF in Excel 2013 (n=4, 16, 25, 50, 200). Step-by-step demo: Excel 2008 [lup](#) [6up](#) and [PPT](#). [Results](#). [Data](#) (xlsx)

**CREATE AND COMPARE CONFIDENCE INTERVALS USING EXCEL:**

- Create Confidence Intervals using Excel 2010. [6up](#), [lup](#).
  - Compare Z and T Statistics using Excel 2003. [pdf](#)
  - Compare Confidence Functions using Excel 2010: [pdf](#), [xlsx](#).
- Compare Two Confidence Intervals Excel 2010. [pdf](#), [xlsx](#)
- Display Paired Confidence Intervals using Excel. [Template](#) (xls). Demo: [6up](#), [lup](#).

**CREATE HYPOTHESIS TESTS USING EXCEL:**

[Isaacson data set](#) (240 rows, 8 columns).

- Hypothesis test for a single Population: **Z-Test function**. Excel 2008 demo: [6up](#), [lup](#).
- Hypothesis tests for two populations: **T-Test function**. Excel 2008 demo: [6up](#), [lup](#).
- Hypothesis tests for two populations: **T-Test command**. Excel 2013 demo [6up](#), [lup](#).
- [Statistically-significant correlations as a function of sample size: A Simple Model](#) (xls).

**SPACE PHYSICS PAPERS:**

1. M. Schiold (1968). The Configuration of Geomagnetic Field Lines above the Auroral Zones, Copy at [www.StatLit.org/pdf/1968-Milo-Schiold-PhD-Dissertation-Rice.pdf](http://www.StatLit.org/pdf/1968-Milo-Schiold-PhD-Dissertation-Rice.pdf)
2. M. Schiold (1969). Pressure Balance between Solar Wind and Magnetosphere [Preview] J. Geophys. Res., 74, 5, doi:10.1029/JA074i005p01275, 1969 Copy at [www.StatLit.org/pdf/1969-Schiold-JGR.pdf](http://www.StatLit.org/pdf/1969-Schiold-JGR.pdf)
3. M. Schiold (1969). Correction to Paper by Milo A. Schiold, 'Pressure Balance between Solar Wind and Magnetosphere' J. Geophys. Res., 74, 21, doi:10.1029/JA074i021p05189, 1969 Copy at [www.StatLit.org/pdf/1969-Schiold-JGR2.pdf](http://www.StatLit.org/pdf/1969-Schiold-JGR2.pdf)
4. Schiold, M. A.; Freeman, J. W.; Dessler, A. J., (1969) "A Source for Field-Aligned Currents at Auroral Latitudes" *Journal of Geophysical Research*, Vol 74,1. p.247 doi:10.1029/JA074i001p00247 Copy at [www.StatLit.org/pdf/1969-Schiold-Freeman-Dessler-JGR.pdf](http://www.StatLit.org/pdf/1969-Schiold-Freeman-Dessler-JGR.pdf)
5. M. Schiold and L. Frank (1970). Electron Observations between the Inner Edge of the Plasma Sheet and the Plasmasphere. [Preview] J. Geophys. Res., 75, 28, doi:10.1029/JA075i028p05401, 1970 Copy at [www.StatLit.org/pdf/1970-Schiold-Frank-JGR.pdf](http://www.StatLit.org/pdf/1970-Schiold-Frank-JGR.pdf)
6. M. Schiold (1970). Drift of Charged Particles in a Simple Geometric Field. University of Iowa conference paper.

**PHILOSOPHY AND SCIENCE PAPERS:**

1. Schiold (1991). Summary of the 1954 *Handbook of Logic* by Roland Houde and Jerome Fisher. See [www.StatLit.org/pdf/1991-Schiold-Summary-1954-Houde-Fisher-Handbook-of-Logic.pdf](http://www.StatLit.org/pdf/1991-Schiold-Summary-1954-Houde-Fisher-Handbook-of-Logic.pdf)
2. Schiold (1993a). Condensed version of Lewis Carroll's *Symbolic Logic* (1896). See [www.StatLit.org/pdf/1993-Schiold-Summary-1896-Carroll-Symbolic-Logic.pdf](http://www.StatLit.org/pdf/1993-Schiold-Summary-1896-Carroll-Symbolic-Logic.pdf)
3. Schiold (1993b). An Analysis of Consciousness. Augsburg Philosophy Colloquium. Copy at [www.StatLit.org/pdf/1993-Schiold-Philosophy-Consciousness.pdf](http://www.StatLit.org/pdf/1993-Schiold-Philosophy-Consciousness.pdf)
4. Schiold, Milo (2004). Resolving Three Key Problems in the Humanities. *The International Journal of the Humanities*. Vol. 2, Num. 3. P. 2375-2385. See [www.StatLit.org/pdf/2004SchioldNDIH.pdf](http://www.StatLit.org/pdf/2004SchioldNDIH.pdf)
5. Schiold, Milo (2005). Making Science a Core Liberal Art for the 21st Century. Project Kaleidoscope. See [www.StatLit.org/pdf/2005SchioldPKAL.pdf](http://www.StatLit.org/pdf/2005SchioldPKAL.pdf)
6. Schiold, Milo (2009). Promoting Objectivity in Science and Ethics. FreeMinds 09. See [www.StatLit.org/pdf/2009SchioldFreeMinds.pdf](http://www.StatLit.org/pdf/2009SchioldFreeMinds.pdf)

**Papers shown in boxes were invited or refereed and published in journals, magazines or books.**

# Milo Schield: CV

## DR. MILO A. SCHIELD

### Synergistic Activities:

Dr. Schield is the Director of the W. M. Keck Statistical Literacy project – a project “to develop statistical literacy as an interdisciplinary curriculum in the liberal arts.” He is the US Coordinator of the International Statistical Literacy project (ISLP), an elected member of the International Statistical Institute (ISI), the Vice-President of the National Numeracy Network (NNN), and the editor and webmaster of [www.StatLit.org](http://www.StatLit.org). He is a past-President of the Twin Cities Chapter of the American Statistical Association,

He is a tenured professor in Business Administration at Augsburg College with a Ph.D. in Space Physics (Rice University). He has been chair of the Business Department: the largest department at Augsburg.

He has taught traditional statistics at the undergraduate level for over 20 years; he has taught critical thinking at the undergraduate level for 10 years and at the graduate level for two; he has taught statistical literacy for over 20 years.

SESSIONS AT CONFERENCES: Dr. Schield has organized 17 sessions on statistical literacy at national meetings of the American Statistical Association. Speakers have included Dr. Donald Rubin (Harvard), Dr. Joel Best, author of *Damned Lies and Statistics*, Joe Abramson, author of *Making Sense of Data*, Nicholas Eberstadt, author of *The Tyranny of Numbers*, Jessica Utts, author of *Seeing Through Statistics*, Robyn Dawes, author of *Everyday Irrationality*, Vic Cohen, author of *News and Numbers*, Tom Wonnacott, author of numerous statistics textbooks and Jane Miller, author of *The Chicago Guide to Writing about Numbers*. He also organized a session on Observational Studies and Multivariate Thinking at the International Statistical Institute (ISI) conference in Lisbon (Dr. Donald Rubin, Sir David Cox and Nanny Wermuth) and in Dublin ().

TALKS: He has given over 70 papers (over 120 talks) on statistical literacy in 17 countries on six continents. In the US, he gave the keynote address at a conference sponsored by Project Kaleidoscope (PKAL). He has given talks at Making Statistics More Effective in Schools of Business (MSMESB), the Association of Public Data Users (APDU), Mathematical Association of America (MAA), the American Mathematics Association of Two Year Colleges (AMATYC), the International Association of Social Science Information Services and Technology (IASSIST) and the US Department of the Census and the Bureau of Labor Statistics. Internationally, he has given talks at ICOTS (Singapore, South Africa, Brazil and Slovenia), ICME (Tokyo and Copenhagen), ISI/ISE (Australia, Portugal and Ireland), and IASE (Sweden, Portugal and Ireland). He has given invited talks in China, England, Scotland and Wales.

RECOGNITION: In his book, *More Damned Lies and Statistics*, author Joel Best noted the many problems facing this movement and said, “*Despite these obstacles, a small educational movement advocating statistical literacy has emerged. Professor Milo Schield, Director of the W. M. Keck Statistical Literacy Project at Augsburg College in Minneapolis, is the movement’s leading voice.*”

### Professional Preparation:

Iowa State University	Physics major; economics minor	B.S.
University of Illinois	Physics major	M.S.
Rice University	Space Physics	Ph.D.

### Appointments:

Augsburg College	Department of Business Administration	1985-present
St. Paul Companies	Senior Operations Researcher	1978-1985
Fox and Co., CPA	Senior Consultant	1975-1978