

Deborah Mayo: Professor Emerita, Department of Philosophy, Virginia Tech; Research Associate at the Centre for the Philosophy of Natural and Social Science (CPNSS) at the London School of Economics and Political Science.

Mini-Bio: Deborah Mayo's *Error and the Growth of Experimental Knowledge* won the 1998 Lakatos Prize in philosophy of science. She co-edited (with A. Spanos) *Error and Inference* (2010, CUP). Her most recent book is *Statistical Inference as Severe Testing: How to Get Beyond the Statistics Wars* (2018, CUP). She founded the Fund for Experimental Reasoning, Reliability and the Objectivity and Rationality of Science (E.R.R.O.R) which sponsored a [2 week summer seminar](#) in Philosophy of Statistics in 2019 for 15 faculty in philosophy, psychology, statistics, law and computer science (co-directed with A. Spanos). She publishes widely in philosophy of science, statistics, and philosophy of experiment. She blogs at errorstatistics.com and phil-stat-wars.com.

SELECTED PUBLICATIONS:

BOOKS:

- *Statistical Inference as Severe Testing: How to Get Beyond the Statistics Wars*. CUP, 2018.
- *Error and Inference: Recent Exchanges on Experimental Reasoning, Reliability and the Objectivity and Rationality of Science*, co-edited with A. Spanos. CUP, 2010.
- *Error and the Growth of Experimental Knowledge*. Chicago 1996.
- *Acceptable Evidence, Science and Values in Risk*, co-edited with R. Hollander. Oxford, 1991.

PAPERS:

- "Significance Tests: Vitiating or Vindicating by the Replication Crisis in Psychology?" *Review of Philosophy and Psychology*. (2020). <https://doi.org/10.1007/s13164-020-00501-w>.
- "Rejecting Statistical Significance Tests: Defanging the Arguments". In *JSM Proceedings*, Statistical Consulting Section. Alexandria, VA: American Statistical Association. (2020). [xx-xx](#).
- "[P-Values on Trial](#): Selective Reporting of (Best Practice Guides Against) Selective Reporting" *Harvard Data Science Review* (2020) 2.1.
- "P-value Thresholds: Forfeit at Your Peril" *European Journal of Clinical Investigation* (2019) 49(10): e13170. DOI: [10.1111](https://doi.org/10.1111)
- "[Don't Throw out the Error Control Baby with the Bad Statistics Bathwater](#)", *The American Statistician* 70(2) (2016).
- "On the Birnbaum Argument for the Strong Likelihood Principle," (with discussion & rejoinder) *Statistical Science*, 29(2), (2014), [227-239](#), [261-266](#).
- "[Error-Statistics](#)," in D. Gabbay, P. Thagard, and J. Woods (eds.) *Philosophy of Statistics, Handbook of Philosophy of Science*. Elsevier (2011), 153-198. With Aris Spanos.
- "[Frequentist Statistics as a Theory of Inductive Inference](#)," in J. Rojo (ed.) *Optimality: The Second Erich L. Lehmann Symposium*. (IMS), Vol. 49 (2006), 77-97. With Sir David R. Cox. Reprinted in *Error and Inference* (2010), 247-275.