

Trevor Hastie

Trevor John Hastie (born 27 June 1953) is a South African and American statistician and computer scientist. He is currently serving as the John A. Overdeck Professor of Mathematical Sciences and Professor of Statistics at Stanford University.^[1] Hastie is known for his contributions to applied statistics, especially in the field of machine learning, data mining, and bioinformatics. He has authored several popular books in statistical learning, including *The Elements of Statistical Learning: Data Mining, Inference, and Prediction*. Hastie has been listed as an ISI Highly Cited Author in Mathematics by the ISI Web of Knowledge.

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Education and career

Hastie was born on 27 June 1953 in South Africa.^[2] He received his B.S. in statistics from the Rhodes University in 1976 and master's degree from University of Cape Town in 1979. Hastie joined the doctoral program at Stanford University in 1980 and received his Ph.D. in 1984 under the supervision of Werner Stuetzle. His dissertation was "Principal Curves and Surfaces".^[2]

Hastie began his professional career in 1977 with the South African Medical Research Council. After receiving his master's degree in 1979, he spent a year interning at the London School of Hygiene & Tropical Medicine, the Johnson Space Center in Houston, and the Biomath department at Oxford University. After receiving his doctoral degree from Stanford, Hastie returned to South Africa to work with his former employer South African Medical Research Council. He returned to United States in 1986 and joined the AT&T Bell Laboratories in Murray Hill, New Jersey and remained there for nine years. He joined Stanford University in 1994 as Associate Professor in Statistics and Biostatistics. He was promoted to full Professor in 1999. During the period 2006–2009, he was the chair of the Department of Statistics at Stanford University. In 2013 he was named the John A. Overdeck Professor of Mathematical Sciences.

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Born	27 June 1953 <div>South Africa</div>
Nationality	American
Alma mater	Rhodes University <div>University of Cape Town</div> <div>Stanford University</div>
Spouse(s)	Lynda Hastie
Scientific career	
Fields	Statistical learning, <div>Data mining,</div> <div>bioinformatics</div>
Institutions	AT&T Bell Laboratories <div>Stanford University</div>
Doctoral advisor	Werner Stuetzle
Doctoral students	Hui Zou

Awards and honors

Hastie is a Fellow of the Royal Statistical Society since 1979. He is also an elected Fellow of several professional and scholarly societies, including the Institute of Mathematical Statistics,^[3] the American Statistical Association,^[4] and the South African Statistical Society. He is a recipient of 'Myrto Lefkopolou Distinguished Lectureship' award of Biostatistics Department at the Harvard School of Public Health.^[5] In 2018, he was elected a member of the National Academy of Sciences. In 2019 Hastie became a foreign member of the Royal Netherlands Academy of Arts and Sciences.

Publications

Hastie is a prolific author of scientific works on various topics in applied statistics, including statistical learning, data mining, statistical computing, and bioinformatics. He along with his collaborators has authored about 125 scientific articles. Many of Hastie's scientific articles were coauthored by his longtime collaborator, Robert Tibshirani. Hastie has been listed as an ISI Highly Cited Author in Mathematics by the ISI Web of Knowledge.^[6] He has coauthored the following books:

- T. Hastie and R. Tibshirani, *Generalized Additive Models*, Chapman and Hall, 1990.
- J. Chambers and T. Hastie, *Statistical Models in S*, Wadsworth/Brooks Cole, 1991.
- T. Hastie, R. Tibshirani, and J. Friedman, *The Elements of Statistical Learning: Prediction, Inference and Data Mining*, Second Edition, Springer Verlag, 2009 ^[7] (available for free from the author's website).
- G. James, D. Witten, T. Hastie, R. Tibshirani, *An Introduction to Statistical Learning with Applications in R*, Springer Verlag, 2013 ^[8] (available for free from the co-author's website).
- T. Hastie, R. Tibshirani, M. Wainwright, *Statistical Learning with Sparsity: the Lasso and Generalizations*, CRC Press, 2015 ^[9] (available for free from the author's website).
- Bradley Efron; Trevor Hastie (2016). *Computer Age Statistical Inference* (<https://web.stanford.edu/~hastie/CASI/>). Cambridge University Press. ISBN 9781107149892.

References

1. "Trevor J. Hastie, Department of Statistics" (<http://www-stat.stanford.edu/people/faculty/hastie/index.html>). Stanford University. Retrieved 8 April 2012.
2. "Trevor John Hastie" (<http://www.stanford.edu/~hastie/docs/resume.pdf>) (PDF). Retrieved 8 April 2012.
3. "Honored IMS Fellows" (https://web.archive.org/web/20161019175343/http://imstat.org/awards/honored_fellows.htm). Institute of Mathematical Statistics. Archived from the original (http://imstat.org/awards/honored_fellows.htm) on 19 October 2016. Retrieved 8 April 2012.
4. "Fellows of the ASA" (<http://www.amstat.org/awards/fellowlist.cfm>). American Statistical Association. Retrieved 8 April 2012.
5. "Myrto Lefkopoulou Distinguished Lecturership" (<http://biosun1.harvard.edu/events/awards/myrto/>). Department of Biostatistics, Harvard School of Public Health. Retrieved 8 April 2012.
6. "H – Research Analytics" (<http://researchanalytics.thomsonreuters.com/highlycited/names/h/>). Thomson Reuters. Retrieved 8 April 2012.
7. Hastie, Trevor; Tibshirani, Robert; Friedman, Jerome H. "The Elements of Statistical Learning" (<https://web.archive.org/web/20091110212529/http://www-stat.stanford.edu/~tibs/ElemStatLearn/>). Archived from the original (<http://www-stat.stanford.edu/~tibs/ElemStatLearn/>) on 10 November 2009. Retrieved 15 June 2012.
8. James, Gareth; Witten, Daniela; Hastie, Trevor; Tibshirani, Robert. "An Introduction to Statistical Learning with Applications in R" (<http://www-bcf.usc.edu/~gareth/ISL/>). Retrieved

3 July 2016.

9. Hastie, Trevor; Tibshirani, Robert; Wainwright, Martin. "Statistical Learning with Sparsity: the Lasso and Generalizations" (<http://web.stanford.edu/~hastie/StatLearnSparsity/>). Retrieved 3 July 2016.

External links

- Official website (<https://statistics.stanford.edu/people/trevor-j-hastie>)
 - Trevor Hastie (<https://www.genealogy.math.ndsu.nodak.edu/id.php?id=18728>) at the Mathematics Genealogy Project
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