


Trevor Hastie

John A. Overdeck Professor, Professor of Statistics and of Biomedical Data Sciences

 NIH Biosketch available Online

 Resume available Online

Bio

ACADEMIC APPOINTMENTS

- Professor, Statistics
- Professor, Biomedical Data Science
- Member, Bio-X
- Member, Child Health Research Institute
- Member, Stanford Cancer Institute
- Member, Stanford Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Chair, Department of Statistics, (2006-2009)

HONORS AND AWARDS

- Fellow, Royal Statistical Society (1979)
- Fellow, Institute of Mathematical Statistics (1996)
- Elected Member, International Statistics Institute (1994)
- Fellow, American Statistical Association (1998)
- Craig Award, University of Iowa (1996)
- Myrto Lefkopolou award, Harvard School of Public Health (1996)
- Fellow, South African Statistical Association (2011)
- The Emmanuel and Carol Parzen prize for Statistical Innovation, Texas A&M University. (2014)
- Bernard G. Greenberg distinguished lecturer, Department of Biostatistics, University of North Carolina (2013)

PROGRAM AFFILIATIONS

- Institute for Computational and Mathematical Engineering (ICME)

PROFESSIONAL EDUCATION

- Ph.D., Stanford University , Statistics (1984)
- M.Sc, University of Cape Town , Statistics (1979)
- B.Sc (hons), Rhodes University , Statistics (1976)

LINKS

- Personal Web site: <http://www.stanford.edu/~hastie>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Trevor Hastie specializes in applied statistical modeling, and he has written five books in this area:

"Generalized Additive Models" (with R. Tibshirani, Chapman and Hall,

1991), "Elements of Statistical Learning (second edition)"

(with R. Tibshirani and J. Friedman, Springer 2009),

"An Introduction to Statistical Learning" (with G. James, D. Witten and

R. Tibshirani, Springer 2013),

"Statistical Learning with Sparsity" (with R. Tibshirani and M. Wainwright, CRC Press 2015)

and "Computer Age Statistical Inference" (with B. Efron, Cambridge, 2016). He has also made contributions in

statistical computing, co-editing (with J. Chambers) a large software

library on modeling tools in the S language used in the R computing environment

("Statistical Models in S", Wadsworth, 1992). His current research

focuses on applied problems in biology and genomics, medicine and

industry, in particular data modeling, prediction and classification

problems.

Teaching

COURSES

2017-18

- Introduction to Statistical Learning: STATS 216V (Sum)
- Methods for Applied Statistics II: Applied Multivariate Statistics: STATS 305C (Spr)

2016-17

- Introduction to Statistical Learning: STATS 216V (Sum)
- Modern Applied Statistics: Learning: STATS 315A (Win)

2015-16

- Introduction to Statistical Learning: STATS 216V (Sum)
- Modern Applied Statistics: Learning: STATS 315A (Win)

2014-15

- Introduction to Statistical Learning: STATS 216V (Sum)
- Modern Applied Statistics: Learning: STATS 315A (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Vibhu Agarwal, Lichy Han

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)

Publications

PUBLICATIONS

- **Learning Interactions via Hierarchical Group-Lasso Regularization** *JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS*
Lim, M., Hastie, T.
2015; 24 (3): 627-654
- **Bias correction in species distribution models: pooling survey and collection data for multiple species** *METHODS IN ECOLOGY AND EVOLUTION*
Fithian, W., Elith, J., Hastie, T., Keith, D. A.
2015; 6 (4): 424-438
- **Learning the Structure of Mixed Graphical Models** *JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS*
Lee, J. D., Hastie, T. J.
2015; 24 (1): 230-253
- **Statistical Learning with Sparsity: The Lasso and Generalizations**
Hastie, T., Tibshirani, R., Wainwright, M.
CRC Press.2015
- **An Introduction to Statistical Learning, with Applications in R** *Springer Texts in Statistics*
James, G., Witten, D., Hastie, T. J., Tibshirani, R.
Springer.2013
- **Elements of Statistical Learning: datamining, inference, and prediction (second edition)** *Springer*
T. Hastie, R. Tibshirani, J. Friedman
2009
- **PATHWISE COORDINATE OPTIMIZATION** *ANNALS OF APPLIED STATISTICS*
Friedman, J., Hastie, T., Hoefling, H., Tibshirani, R.
2007; 1 (2): 302-332
- **Regularization and variable selection via the elastic net** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
Zou, H., Hastie, T.
2005; 67: 301-320
- **The entire regularization path for the support vector machine** *JOURNAL OF MACHINE LEARNING RESEARCH*
Hastie, T., Rosset, S., Tibshirani, R., Zhu, J.
2004; 5: 1391-1415
- **Boosting as a regularized path to a maximum margin classifier** *JOURNAL OF MACHINE LEARNING RESEARCH*
Rosset, S., Ji, Z., Hastie, T.
2004; 5: 941-973
- **Least angle regression** *ANNALS OF STATISTICS*
Efron, B., Hastie, T., Johnstone, I., Tibshirani, R.
2004; 32 (2): 407-451
- **Bayesian backfitting - Comments and rejoinder** *STATISTICAL SCIENCE*
Cook, R. D., Pardoe, L., Gelfand, A. E., Green, P. J., Hastie, T., Tibshirani, R.
2000; 15 (3): 213-223
- **Additive logistic regression: A statistical view of boosting** *ANNALS OF STATISTICS*
Friedman, J., Hastie, T., Tibshirani, R.
2000; 28 (2): 337-374

- **Discriminant analysis by Gaussian mixtures** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-METHODOLOGICAL*
Hastie, T., Tibshirani, R.
1996; 58 (1): 155-176
- **VARYING-COEFFICIENT MODELS** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
Hastie, T., Tibshirani, R.
1993; 55 (4): 757-796
- **Generalized Additive Models --**
Hastie TJ, Chapman, Hall (with R. Tibshirani)
1990
- **Targeted use of growth mixture modeling: a learning perspective** *STATISTICS IN MEDICINE*
Jo, B., Findling, R. L., Wang, C., Hastie, T. J., Youngstrom, E. A., Arnold, L. E., Fristad, M. A., Horwitz, S. M.
2017; 36 (4): 671-686
- **Synergistic drug combinations from electronic health records and gene expression.** *Journal of the American Medical Informatics Association*
Low, Y. S., Daugherty, A. C., Schroeder, E. A., Chen, W., Seto, T., Weber, S., Lim, M., Hastie, T., Mathur, M., Desai, M., Farrington, C., Radin, A. A., Sirota, et al
2016
- **Human amygdala engagement moderated by early life stress exposure is a biobehavioral target for predicting recovery on antidepressants** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Goldstein-Piekarski, A. N., Korgaonkar, M. S., Green, E., Suppes, T., Schatzberg, A. F., Hastie, T., Nemeroff, C. B., Williams, L. M.
2016; 113 (42): 11955-11960
- **Combinatorial extracellular matrix microenvironments promote survival and phenotype of human induced pluripotent stem cell-derived endothelial cells in hypoxia** *ACTA BIOMATERIALIA*
Hou, L., Collier, J., Natu, V., Hastie, T. J., Huang, N. F.
2016; 44: 188-199
- **ZeitZeiger: supervised learning for high-dimensional data from an oscillatory system** *NUCLEIC ACIDS RESEARCH*
Hughes, J. J., Hastie, T., Butte, A. J.
2016; 44 (8)
- **Effect of long-term antibiotic use on weight in adolescents with acne.** *journal of antimicrobial chemotherapy*
Contopoulos-Ioannidis, D. G., Ley, C., Wang, W., Ma, T., Olson, C., Shi, X., Luft, H. S., Hastie, T., Parsonnet, J.
2016; 71 (4): 1098-1105
- **CUSTOMIZED TRAINING WITH AN APPLICATION TO MASS SPECTROMETRIC IMAGING OF CANCER TISSUE** *ANNALS OF APPLIED STATISTICS*
Powers, S., Hastie, T., Tibshirani, R.
2015; 9 (4): 1709-1725
- **Matrix Completion and Low-Rank SVD via Fast Alternating Least Squares** *JOURNAL OF MACHINE LEARNING RESEARCH*
Hastie, T., Mazumder, R., Lee, J. D., Zadeh, R.
2015; 16: 3367-3402
- **Clinically Relevant Molecular Subtypes in Leiomyosarcoma.** *Clinical cancer research*
Guo, X., Jo, V. Y., Mills, A. M., Zhu, S. X., Lee, C., Espinosa, I., Nucci, M. R., Varma, S., Forgó, E., Hastie, T., Anderson, S., Ganjoo, K., Beck, et al
2015; 21 (15): 3501-3511
- **Effective degrees of freedom: a flawed metaphor** *BIOMETRIKA*
Janson, L., Fithian, W., Hastie, T. J.
2015; 102 (2): 479-485
- **Point process models for presence-only analysis** *METHODS IN ECOLOGY AND EVOLUTION*
Renner, I. W., Elith, J., Baddeley, A., Fithian, W., Hastie, T., Phillips, S. J., Popovic, G., Warton, D. I.
2015; 6 (4): 366-379
- **CATS regression - a model-based approach to studying trait-based community assembly** *METHODS IN ECOLOGY AND EVOLUTION*

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- Warton, D. I., Shipley, B., Hastie, T.
2015; 6 (4): 389-398
- **Bias correction in species distribution models: pooling survey and collection data for multiple species** *METHODS IN ECOLOGY AND EVOLUTION*
Fithian, W., Elith, J., Hastie, T., Keith, D. A.
2015
 - **LOCAL CASE-CONTROL SAMPLING: EFFICIENT SUBSAMPLING IN IMBALANCED DATA SETS** *ANNALS OF STATISTICS*
Fithian, W., Hastie, T.
2014; 42 (5): 1693-1724
 - **Assessing the significance of global and local correlations under spatial autocorrelation: A nonparametric approach** *BIOMETRICS*
Viladomat, J., Mazumder, R., McInturff, A., McCauley, D. J., Hastie, T.
2014; 70 (2): 409-418
 - **Boosted Varying-Coefficient Regression Models for Product Demand Prediction** *JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS*
Wang, J. C., Hastie, T.
2014; 23 (2): 361-382
 - **Confidence Intervals for Random Forests: The Jackknife and the Infinitesimal Jackknife** *JOURNAL OF MACHINE LEARNING RESEARCH*
Wager, S., Hastie, T., Efron, B.
2014; 15: 1625-1651
 - **Matrix Completion and Low-Rank SVD via Fast Alternating Least Squares** *Technical Report, Statistics Department, Stanford University*
Hastie, T., Mazumder, R., Lee, J., Zadeh, R.
2014
 - **Learning the Structure of Mixed Graphical Models** *Journal of Computational and Graphical Statistics*
Lee, J. D., Hastie, T. J.
2014; 24 (1): 230-253
 - **CATS regression—a model-based approach to studying trait-based community assembly** *Methods & Statistics in Ecology: Methods in Ecology and Evolution*
Warton, D., Shipley, B., Hastie, T.
2014; 6 (4): 389-398
 - **Bias correction in species distribution models: pooling survey and collection data for multiple species** *METHODS IN ECOLOGY AND EVOLUTION*
Fithian, W., Elith, J., Hastie, T., Keith, D.
2014; 6 (4): pages 424–438
 - **Learning interactions via hierarchical group-lasso regularization** *Journal of Computational and Graphical Statistics*
Lim, M., Hastie, T.
2014
 - **FINITE-SAMPLE EQUIVALENCE IN STATISTICAL MODELS FOR PRESENCE-ONLY DATA** *ANNALS OF APPLIED STATISTICS*
Fithian, W., Hastie, T.
2013; 7 (4): 1917-1939
 - **Inference from presence-only data; the ongoing controversy** *ECOGRAPHY*
Hastie, T., Fithian, W.
2013; 36 (8): 864-867
 - **A Sparse-Group Lasso** *JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS*
Simon, N., Friedman, J., Hastie, T., Tibshirani, R.
2013; 22 (2): 231-245
 - **Structure Learning of Mixed Graphical Models** *Proceedings of the 16th International Conference on Artificial Intelligence and Statistics*
Lee, J., Hastie, T.
2013: 388–396
 - **Effective degrees of freedom: a flawed metaphor** *Technical Report, Statistics Department, Stanford University*
Jansen, L., Fithian, W., Hastie, T.

2013

- **A blockwise descent algorithm for group-penalized multiresponse and multinomial regression.** *Technical Report, Statistics Department, Stanford University*
Simon, N., Friedman, J., Hastie, T.
2013
- **An Introduction to Statistical Learning with Applications in R**
James, G., Witten, D., Hastie, T., Tibshirani, R.
Springer Texts in Statistics.2013
- **Compressive Feature Learning** *Curran Associates, Inc.*,
Paskov, H. S., West, R., Mitchell, J. C., Hastie, T.
2013: 2931–39
- **Boosted Varying-Coefficient Regression Models for Product Demand Prediction** *Journal of Computational and Graphical Statistics*
Wang, J., Hastie, T.
2013; 23 (2): 361-382
- **No increased mortality with early aortic aneurysm disease** *26th Annual Meeting of the Western-Vascular-Society*
Mell, M., White, J. J., Hill, B. B., Hastie, T., Dalman, R. L.
MOSBY-ELSEVIER.2012: 1246–51
- **Coronary risk assessment among intermediate risk patients using a clinical and biomarker based algorithm developed and validated in two population cohorts** *CURRENT MEDICAL RESEARCH AND OPINION*
Cross, D. S., McCarty, C. A., Hytopoulos, E., Beggs, M., Nolan, N., Harrington, D. S., Hastie, T., Tibshirani, R., Tracy, R. P., Psaty, B. M., McClelland, R., Tsao, P. S., Quertermous, et al
2012; 28 (11): 1819-1830
- **Exact Covariance Thresholding into Connected Components for Large-Scale Graphical Lasso** *JOURNAL OF MACHINE LEARNING RESEARCH*
Mazumder, R., Hastie, T.
2012; 13: 781-794
- **Strong rules for discarding predictors in lasso-type problems** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
Tibshirani, R., Bien, J., Friedman, J., Hastie, T., Simon, N., Taylor, J., Tibshirani, R. J.
2012; 74: 245-266
- **The graphical lasso: New insights and alternatives** *ELECTRONIC JOURNAL OF STATISTICS*
Mazumder, R., Hastie, T.
2012; 6: 2125-2149
- **Improved coronary risk assessment among intermediate risk patients using a clinical and biomarker based algorithm developed and validated in two population cohorts** *Current Medical Research and Opinion*
Cross, D. S., McCarty, C. A., Hytopoulos, E., Beggs, M., Nolan, N., Harrington, D. S., Hastie, T., Tibshirani, R., Tracy, R. P., Psaty, B. M., McClelland, R., Tsao, P. S., Quertermous, et al
2012
- **Sparse Discriminant Analysis** *TECHNOMETRICS*
Clemmensen, L., Hastie, T., Witten, D., Ersboll, B.
2011; 53 (4): 406-413
- **A fused lasso latent feature model for analyzing multi-sample aCGH data** *BIOSTATISTICS*
Nowak, G., Hastie, T., Pollack, J. R., Tibshirani, R.
2011; 12 (4): 776-791
- **SparseNet: Coordinate Descent With Nonconvex Penalties** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Mazumder, R., Friedman, J. H., Hastie, T.
2011; 106 (495): 1125-1138
- **Regularization Paths for Cox's Proportional Hazards Model via Coordinate Descent** *JOURNAL OF STATISTICAL SOFTWARE*
Simon, N., Friedman, J., Hastie, T., Tibshirani, R.

2011; 39 (5): 1-13

- **A statistical explanation of MaxEnt for ecologists** *DIVERSITY AND DISTRIBUTIONS*
Elith, J., Phillips, S. J., Hastie, T., Dudik, M., Chee, Y. E., Yates, C. J.
2011; 17 (1): 43-57
- **Spectral Regularization Algorithms for Learning Large Incomplete Matrices** *JOURNAL OF MACHINE LEARNING RESEARCH*
Mazumder, R., Hastie, T., Tibshirani, R.
2010; 11: 2287-2322
- **Dynamic visualization of statistical learning in the context of high-dimensional textual data** *JOURNAL OF WEB SEMANTICS*
Greenacre, M., Hastie, T.
2010; 8 (2-3): 163-168
- **Likelihood-Based Sufficient Dimension Reduction** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Zhu, M., Hastie, T. J.
2010; 105 (490): 880-880
- **Cell type-specific gene expression differences in complex tissues** *NATURE METHODS*
Shen-Orr, S. S., Tibshirani, R., Khatri, P., Bodian, D. L., Staedtler, F., Perry, N. M., Hastie, T., Sarwal, M. M., Davis, M. M., Butte, A. J.
2010; 7 (4): 287-289
- **Discovery of molecular subtypes in leiomyosarcoma through integrative molecular profiling** *ONCOGENE*
Beck, A. H., Lee, C., WITTEN, D. M., Gleason, B. C., Edris, B., Espinosa, I., Zhu, S., Li, R., Montgomery, K. D., Marinelli, R. J., Tibshirani, R., Hastie, T., Jablons, et al
2010; 29 (6): 845-854
- **Network-Based Elucidation of Human Disease Similarities Reveals Common Functional Modules Enriched for Pluripotent Drug Targets** *PLOS COMPUTATIONAL BIOLOGY*
Suthram, S., Dudley, J. T., Chiang, A. P., Chen, R., Hastie, T. J., Butte, A. J.
2010; 6 (2)
- **Regularization Paths for Generalized Linear Models via Coordinate Descent** *JOURNAL OF STATISTICAL SOFTWARE*
Friedman, J., Hastie, T., Tibshirani, R.
2010; 33 (1): 1-22
- **A penalized matrix decomposition, with applications to sparse principal components and canonical correlation analysis** *BIOSTATISTICS*
Witten, D. M., Tibshirani, R., Hastie, T.
2009; 10 (3): 515-534
- **Presence-Only Data and the EM Algorithm** *BIOMETRICS*
Ward, G., Hastie, T., Barry, S., Elith, J., Leathwick, J. R.
2009; 65 (2): 554-563
- **Genome-wide association analysis by lasso penalized logistic regression** *BIOINFORMATICS*
Wu, T. T., Chen, Y. F., Hastie, T., Sobel, E., Lange, K.
2009; 25 (6): 714-721
- **Discovery of Molecular Subtypes in Leiomyosarcoma through Integrative Molecular Profiling** *98th Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Beck, A. H., Lee, C. H., WITTEN, D. M., Zhou, S., Montgomery, K., Tibshirani, R., Hastie, T., West, R. B., van de Rijn, M.
NATURE PUBLISHING GROUP.2009: 368A-368A
- **Multi-class AdaBoost** *STATISTICS AND ITS INTERFACE*
Zhu, J., Zou, H., Rosset, S., Hastie, T.
2009; 2 (3): 349-360
- **The Elements of Statistical Learning: Prediction, Inference, and Data Mining**
Hastie, T., Tibshirani, R., Friedman, J.
Springer Verlag.2009

- **Multi-class AdaBoost STATISTICS AND ITS INTERFACE** *STATISTICS AND ITS INTERFACE*
Zhu, J., Zou, H., Rosset, S., Hastie, T.
2009; 2 (3): 349-360
- **Discovery of Molecular Subtypes in Leiomyosarcoma through Integrative Molecular Profiling** *98th Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Beck, A. H., Lee, C. H., WITTEN, D. M., Zhou, S., Montgomery, K., Tibshirani, R., Hastie, T., West, R. B., van de Rijn, M.
NATURE PUBLISHING GROUP.2009: 368A–368A
- **New cutpoints to identify increased HER2 copy number: analysis of a large, population-based cohort with long-term follow-up** *BREAST CANCER RESEARCH AND TREATMENT*
Jensen, K. C., Turbin, D. A., Leung, S., Miller, M. A., Johnson, K., Norris, B., Hastie, T., McKinney, S., Nielsen, T. O., Huntsman, D. G., Gilks, C. B., West, R. B.
2008; 112 (3): 453-459
- **NEW MULTICATEGORY BOOSTING ALGORITHMS BASED ON MULTICATEGORY FISHER-CONSISTENT LOSSES** *ANNALS OF APPLIED STATISTICS*
Zou, H., Zhu, J., Hastie, T.
2008; 2 (4): 1290-1306
- **Risk estimation of distant metastasis in node-negative, estrogen receptor-positive breast cancer patients using an RT-PCR based prognostic expression signature** *BMC CANCER*
Tutt, A., Wang, A., Rowland, C., Gillett, C., Lau, K., Chew, K., Dai, H., Kwok, S., Ryder, K., Shu, H., Springall, R., Cane, P., McCallie, et al
2008; 8
- **Combining biological gene expression signatures in predicting outcome in breast cancer: An alternative to supervised classification** *EUROPEAN JOURNAL OF CANCER*
Nuyten, D. S., Hastie, T., Chi, J. A., Chang, H. Y., van de Vijver, M. J.
2008; 44 (15): 2319-2329
- **"Preconditioning" for feature selection and regression in high-dimensional problems'** *ANNALS OF STATISTICS*
Paul, D., Bair, E., Hastie, T., Tibshirani, R.
2008; 36 (4): 1595-1618
- **Dispersal, disturbance and the contrasting biogeographies of New Zealand's diadromous and non-diadromous fish species** *JOURNAL OF BIOGEOGRAPHY*
Leathwick, J. R., Elith, J., Chadderton, W. L., Rowe, D., Hastie, T.
2008; 35 (8): 1481-1497
- **A working guide to boosted regression trees** *JOURNAL OF ANIMAL ECOLOGY*
Elith, J., Leathwick, J. R., Hastie, T.
2008; 77 (4): 802-813
- **Sparse inverse covariance estimation with the graphical lasso** *BIOSTATISTICS*
Friedman, J., Hastie, T., Tibshirani, R.
2008; 9 (3): 432-441
- **Novel methods for the design and evaluation of marine protected areas in offshore waters** *CONSERVATION LETTERS*
Leathwick, J., Moilanen, A., Francis, M., Elith, J., Taylor, P., Julian, K., Hastie, T., Duffy, C.
2008; 1 (2): 91-102
- **Radiation-induced gene expression in human subcutaneous fibroblasts is predictive of radiation-induced fibrosis** *RADIOTHERAPY AND ONCOLOGY*
Rodningen, A. K., Borresen-Dale, A., Alsner, J., Hastie, T., Overgaard, J.
2008; 86 (3): 314-320
- **Penalized logistic regression for detecting gene interactions** *BIOSTATISTICS*
Park, M. Y., Hastie, T.
2008; 9 (1): 30-50
- **HER2 status in a large, population-based cohort: Analysis of distinct HER2 subgroups** *97th Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Jensen, K. C., Turbin, D. A., Leung, S., Miller, M. A., Johnson, K., Norris, B., Hastie, T., McKinney, S., Nielsen, T. O., Huntsman, D. G., Gilks, C. B., West, R. B.

NATURE PUBLISHING GROUP.2008: 39A–39A

- **On the "degrees of freedom" of the lasso** *ANNALS OF STATISTICS*
Zou, H., Hastie, T., Tibshirani, R.
2007; 35 (5): 2173-2192
- **Nonlinear estimators and tail bounds for dimension reduction in $l(1)$ using Cauchy random projections** *JOURNAL OF MACHINE LEARNING RESEARCH*
Li, P., Hastie, T. J., Church, K. W.
2007; 8: 2497-2532
- **Gene expression programs of human smooth muscle cells: Tissue-specific differentiation and prognostic significance in breast cancers** *PLOS GENETICS*
Chi, J., Rodriguez, E. H., Wang, Z., Nuyten, D. S., Mukherjee, S., van de Rijn, M., van de Vijver, M. J., Hastie, T., Brown, P. O.
2007; 3 (9): 1770-1784
- **Averaged gene expressions for regression** *BIOSTATISTICS*
Park, M. Y., Hastie, T., Tibshirani, R.
2007; 8 (2): 212-227
- **Margin trees for high-dimensional classification** *JOURNAL OF MACHINE LEARNING RESEARCH*
Tibshirani, R., Hastie, T.
2007; 8: 637-652
- **Characterization of heterotypic interaction effects in vitro to deconvolute global gene expression profiles in cancer** *GENOME BIOLOGY*
Buess, M., Nuyten, D. S., Hastie, T., Nielsen, T., Pesich, R., Brown, P. O.
2007; 8 (9)
- **L-1-regularization path algorithm for generalized linear models** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
Park, M. Y., Hastie, T.
2007; 69: 659-677
- **Nonlinear estimators and tail bounds for dimension reduction in $l(1)$ using Cauchy random projections** *20th Annual Conference on Learning Theory*
Li, P., Hastie, T. J., Church, K. W.
SPRINGER-VERLAG BERLIN.2007: 514–529
- **Automatic bias correction methods in semi-supervised learning** *AMS/IMS/SIAM Joint Summer Research Conference on Machine and Statistical Learning - Prediction and Discovery*
Zou, H., Zhu, J., Rosset, S., Hastie, T.
AMER MATHEMATICAL SOC.2007: 165–175
- **Forward stagewise regression and the monotone lasso** *ELECTRONIC JOURNAL OF STATISTICS*
Hastie, T., Taylor, J., Tibshirani, R., Walther, G.
2007; 1: 1-29
- **Regularized linear discriminant analysis and its application in microarrays** *BIOSTATISTICS*
Guo, Y., Hastie, T., Tibshirani, R.
2007; 8 (1): 86-100
- **Does cancer risk affect health-related quality of life in patients with Barrett's esophagus?** *Digestive Disease Week Meeting/106th Annual Meeting of the American-Gastroenterological-Association*
Gerson, L. B., Ullah, N., Hastie, T., Goldstein, M. K.
MOSBY-ELSEVIER.2007: 16–25
- **Outlier sums for differential gene expression analysis** *BIOSTATISTICS*
Tibshirani, R., Hastie, T.
2007; 8 (1): 2-8
- **Comparative performance of generalized additive models and multivariate adaptive regression splines for statistical modelling of species distributions** *2nd Workshop on Advances in Predictive Species Distribution Models*
Leathwick, J. R., Elith, J., Hastie, T.
ELSEVIER SCIENCE BV.2006: 188–96

- **An RT-PCR-based multi-gene prognostic signature predicts distant metastasis of node negative, ER positive breast cancer from FFPE sections.** *42nd Annual Meeting of the American-Society-of-Clinical-Oncology*
Lau, K. F., Wang, A., Chew, K., Dai, H., Hastie, T., Brandt, B., Waldman, F., Sninsky, J.
AMER SOC CLINICAL ONCOLOGY.2006: 4S-4S
- **Sparse principal component analysis** *JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS*
Zou, H., Hastie, T., Tibshirani, R.
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