# Stanford

## Art Owen
Max H. Stein Professor

Statistics

## Bio

### ACADEMIC APPOINTMENTS

- Professor, Statistics
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

### ADMINISTRATIVE APPOINTMENTS

- Chair, Department of Statistics, Stanford University, (2018- present)

### LINKS

- My Lab Site: http://stat.stanford.edu/~owen

## Research & Scholarship

### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Statistical methods to analyze large data matrices in bioinformatics

## Teaching

### COURSES

**2023-24**

- Applied Multivariate Analysis: BIODS 206, STATS 206 (Aut)
- Applied Statistics I: STATS 305A (Aut)
- Topic: Monte Carlo: STATS 362 (Win)

**2022-23**

- Design of Experiments: STATS 263, STATS 363 (Aut)
- Empirical Likelihood: STATS 365 (Spr)
- Sampling: STATS 204 (Spr)

**2021-22**

- Design of Experiments: STATS 263, STATS 363 (Aut)

**2020-21**

- Design of Experiments: STATS 263, STATS 363 (Aut)

- Statistics Faculty Research Presentations: STATS 303 (Aut)

## STANFORD ADVISEES

**Doctoral Dissertation Reader (AC)**

Disha Ghandwani, Ying Jin, Samir Khan, Sophia Lu, Anav Sood, Yu Wang

**Doctoral Dissertation Advisor (AC)**

Dan Kluger, Harrison Li, Sifan Liu, Tim Morrison, Zexin Pan

## GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)

# Publications

## PUBLICATIONS

- **SUPER-POLYNOMIAL ACCURACY OF ONE DIMENSIONAL RANDOMIZED NETS USING THE MEDIAN OF MEANS** *MATHEMATICS OF COMPUTATION*
  Pan, Z., Owen, A.
  2022

- **DETECTING MULTIPLE REPLICATING SIGNALS USING ADAPTIVE FILTERING PROCEDURES** *ANNALS OF STATISTICS*
  Wang, J., Gui, L., Su, W. J., Sabatti, C., Owen, A. B.
  2022; 50 (4): 1890-1909

- **Combining randomized field experiments with observational satellite data to assess the benefits of crop rotations on yields** *ENVIRONMENTAL RESEARCH LETTERS*
  Kluger, D. M., Owen, A. B., Lobell, D. B.
  2022; 17 (4)

- **BACKFITTING FOR LARGE SCALE CROSSED RANDOM EFFECTS REGRESSIONS** *ANNALS OF STATISTICS*
  Ghosh, S., Hastie, T., Owen, A. B.
  2022; 50 (1): 560-583

- **On Dropping the First Sobol' Point**
  Owen, A. B., Keller, A.
  SPRINGER INTERNATIONAL PUBLISHING AG.2022: 71-86

- **Propensity score methods for merging observational and experimental datasets.** *Statistics in medicine*
  Rosenman, E. T., Owen, A. B., Baiocchi, M., Banack, H. R.
  2021

- **A Strong Law of Large Numbers for Scrambled Net Integration** *SIAM REVIEW*
  Owen, A. B., Rudolf, D.
  2021; 63 (2): 360-372

- **Density Estimation by Randomized Quasi-Monte Carlo** *SIAM-ASA JOURNAL ON UNCERTAINTY QUANTIFICATION*
  Abdellah, A., L'Ecuyer, P., Owen, A. B., Puchhammer, F.
  2021; 9 (1): 280–301

- **Efficient Estimation of the ANOVA Mean Dimension, with an Application to Neural Net Classification** *SIAM-ASA JOURNAL ON UNCERTAINTY QUANTIFICATION*
  Owen, A. B., Hoyt, C.
  2021; 9 (2): 708-730

- **Quasi-Monte Carlo Quasi-Newton in Variational Bayes** *JOURNAL OF MACHINE LEARNING RESEARCH*
  Liu, S., Owen, A. B.
  2021; 22

- **Designing experiments informed by observational studies** *JOURNAL OF CAUSAL INFERENCE*
  Rosenman, E. R., Owen, A. B.
  2021; 9 (1): 147-171

- **ESTIMATION AND INFERENCE FOR VERY LARGE LINEAR MIXED EFFECTS MODELS** *STATISTICA SINICA*
  Gao, K., Owen, A. B.
  2020; 30 (4): 1741–71

- **The Square Root Rule for Adaptive Importance Sampling** *ACM TRANSACTIONS ON MODELING AND COMPUTER SIMULATION*
  Owen, A. B., Zhou, Y.
  2020; 30 (2)

- **MEAN DIMENSION OF RIDGE FUNCTIONS** *SIAM JOURNAL ON NUMERICAL ANALYSIS*
  Hoyt, C. R., Owen, A. B.
  2020; 58 (2): 1195–1216

- **Optimizing the tie-breaker regression discontinuity design** *ELECTRONIC JOURNAL OF STATISTICS*
  Owen, A. B., Varian, H.
  2020; 14 (2): 4004–27

- **PERMUTATION p-VALUE APPROXIMATION VIA GENERALIZED STOLARSKY INVARIANCE** *ANNALS OF STATISTICS*
  He, H. Y., Basu, K., Zhao, Q., Owen, A. B.
  2019; 47 (1): 583–611

- **Comment: Unreasonable Effectiveness of Monte Carlo** *STATISTICAL SCIENCE*
  Owen, A. B.
  2019; 34 (1): 29–33

- **Admissibility in Partial Conjunction Testing** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
  Wang, J., Owen, A. B.
  2019; 114 (525): 158–68

- **Importance sampling the union of rare events with an application to power systems analysis** *ELECTRONIC JOURNAL OF STATISTICS*
  Owen, A. B., Maximov, Y., Chertkov, M.
  2019; 13 (1): 231–54

- **EFFECTIVE DIMENSION OF SOME WEIGHTED PRE-SOBOLEV SPACES WITH DOMINATING MIXED PARTIAL DERIVATIVES** *SIAM JOURNAL ON NUMERICAL ANALYSIS*
  Owen, A.
  2019; 57 (2): 547–62

- **SINGLE NUGGET KRIGING** *STATISTICA SINICA*
  Lee, M. R., Owen, A. B.
  2018; 28 (2): 649–69

- **CONFOUNDER ADJUSTMENT IN MULTIPLE HYPOTHESIS TESTING** *ANNALS OF STATISTICS*
  Wang, J., Zhao, Q., Hastie, T., Owen, A. B.
  2017; 45 (5): 1863–94

- **CONFOUNDER ADJUSTMENT IN MULTIPLE HYPOTHESIS TESTING.** *Annals of statistics*
  Wang, J., Zhao, Q., Hastie, T., Owen, A. B.
  2017; 45 (5): 1863-1894

- **Scrambled Geometric Net Integration Over General Product Spaces** *FOUNDATIONS OF COMPUTATIONAL MATHEMATICS*
  Basu, K., Owen, A. B.
  2017; 17 (2): 467-496

- **On Shapley Value for Measuring Importance of Dependent Inputs** *SIAM-ASA JOURNAL ON UNCERTAINTY QUANTIFICATION*
  Owen, A. B., Prieur, C.
  2017; 5 (1): 986–1002

- **Efficient moment calculations for variance components in large unbalanced crossed random effects models** *ELECTRONIC JOURNAL OF STATISTICS*
  Gao, K., Owen, A.
  2017; 11 (1): 1235–96

- **Statistically Efficient Thinning of a Markov Chain Sampler** *JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS*
  Owen, A. B.
  2017; 26 (3): 738–44

- **Extensible grids: uniform sampling on a space filling curve** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
  He, Z., Owen, A. B.
  2016; 78 (4): 917-931

- **A constraint on extensible quadrature rules** *NUMERISCHE MATHEMATIK*
  Owen, A. B.
  2016; 132 (3): 511-518

- **Bi-Cross-Validation for Factor Analysis** *STATISTICAL SCIENCE*
  Owen, A. B., Wang, J.
  2016; 31 (1): 119-139

- **RANSFORMATIONS AND HARDY-KRAUSE VARIATION** *SIAM JOURNAL ON NUMERICAL ANALYSIS*
  Basu, K., Owen, A. B.
  2016; 54 (3): 1946-1966

- **Optimal multiple testing under a Gaussian prior on the effect sizes** *BIOMETRIKA*
  Dobriban, E., Fortney, K., Kim, S. K., Owen, A. B.
  2015; 102 (4): 753-766

- **Genome-Wide Scan Informed by Age-Related Disease Identifies Loci for Exceptional Human Longevity.** *PLoS genetics*
  Fortney, K., Dobriban, E., Garagnani, P., Pirazzini, C., Monti, D., Mari, D., Atzmon, G., Barzilai, N., Franceschi, C., Owen, A. B., Kim, S. K.
  2015; 11 (12): e1005728

- **Optimal multiple testing under a Gaussian prior on the effect sizes.** *Biometrika*
  Dobriban, E., Fortney, K., Kim, S. K., Owen, A. B.
  2015; 102 (4): 753-766

- **Genome-Wide Scan Informed by Age-Related Disease Identifies Loci for Exceptional Human Longevity** *PLOS GENETICS*
  Fortney, K., Dobriban, E., Garagnani, P., Pirazzini, C., Monti, D., Mari, D., Atzmon, G., Barzilai, N., Franceschi, C., Owen, A. B., Kim, S. K.
  2015; 11 (12)

- **Moment based gene set tests** *BMC BIOINFORMATICS*
  Larson, J. L., Owen, A. B.
  2015; 16

- **LOW DISCREPANCY CONSTRUCTIONS IN THE TRIANGLE** *SIAM JOURNAL ON NUMERICAL ANALYSIS*
  Basu, K., Owen, A. B.
  2015; 53 (2): 743-761

- **Data enriched linear regression** *ELECTRONIC JOURNAL OF STATISTICS*
  Chen, A., Owen, A. B., Shi, M.
  2015; 9 (1): 1078-1112

- **The Sign of the Logistic Regression Coefficient** *AMERICAN STATISTICIAN*
  Owen, A. B., Roediger, P. A.
  2014; 68 (4): 297-301

- **Higher order Sobol' indices** *INFORMATION AND INFERENCE-A JOURNAL OF THE IMA*
  Owen, A. B., Dick, J., Chen, S.
  2014; 3 (1): 59–81

- **Sobol' Indices and Shapley Value** *SIAM-ASA JOURNAL ON UNCERTAINTY QUANTIFICATION*
  Owen, A. B.
  2014; 2 (1): 245–51

- **Self-concordance for empirical likelihood** *CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE*
  Owen, A. B.
  2013; 41 (3): 387-397

- **Better Estimation of Small Sobol' Sensitivity Indices** *ACM TRANSACTIONS ON MODELING AND COMPUTER SIMULATION*
  Owen, A. B.
  2013; 23 (2)

- **Variance Components and Generalized Sobol' Indices** *SIAM-ASA JOURNAL ON UNCERTAINTY QUANTIFICATION*
  Owen, A. B.
  2013; 1 (1): 19–41

- **Correct Ordering in the Zipf-Poisson Ensemble** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
  Dyer, J. S., Owen, A. B.
  2012; 107 (500): 1510-1517

- **MULTIPLE HYPOTHESIS TESTING ADJUSTED FOR LATENT VARIABLES, WITH AN APPLICATION TO THE AGEMAP GENE EXPRESSION DATA** *ANNALS OF APPLIED STATISTICS*
  Sun, Y., Zhang, N. R., Owen, A. B.
  2012; 6 (4): 1664-1688

- **BOOTSTRAPPING DATA ARRAYS OF ARBITRARY ORDER** *ANNALS OF APPLIED STATISTICS*
  Owen, A. B., Eckles, D.
  2012; 6 (3): 895-927

- **A Sparse Transmission Disequilibrium Test for Haplotypes Based on Bradley-Terry Graphs** *HUMAN HEREDITY*
  Ma, L., Wong, W. H., Owen, A. B.
  2012; 73 (1): 52-61

- **Moment-Based Estimation of Stochastic Kronecker Graph Parameters** *INTERNET MATHEMATICS*
  Gleich, D. F., Owen, A. B.
  2012; 8 (3): 232–56

- **Outlier Detection Using Nonconvex Penalized Regression** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
  She, Y., Owen, A. B.
  2011; 106 (494): 626-639

- **CONSISTENCY OF MARKOV CHAIN QUASI-MONTE CARLO ON CONTINUOUS STATE SPACES** *ANNALS OF STATISTICS*
  Chen, S., Dick, J., Owen, A. B.
  2011; 39 (2): 673-701

- **Visualizing bivariate long-tailed data** *ELECTRONIC JOURNAL OF STATISTICS*
  Dyer, J. S., Owen, A. B.
  2011; 5: 642-668

- **EMPIRICAL STATIONARY CORRELATIONS FOR SEMI-SUPERVISED LEARNING ON GRAPHS** *ANNALS OF APPLIED STATISTICS*
  Xu, Y., Dyer, J. S., Owen, A. B.
  2010; 4 (2): 589-614

- **A Rotation Test to Verify Latent Structure** *JOURNAL OF MACHINE LEARNING RESEARCH*
  Perry, P. O., Owen, A. B.
  2010; 11: 603-624

- **KARL PEARSON'S META-ANALYSIS REVISITED** *ANNALS OF STATISTICS*
  Owen, A. B.
  2009; 37 (6B): 3867-3892

- **Aging Mice Show a Decreasing Correlation of Gene Expression within Genetic Modules** *PLOS GENETICS*
  Southworth, L. K., Owen, A. B., Kim, S. K.
  2009; 5 (12)

- **BI-CROSS-VALIDATION OF THE SVD AND THE NONNEGATIVE MATRIX FACTORIZATION** *ANNALS OF APPLIED STATISTICS*
  Owen, A. B., Perry, P. O.
  2009; 3 (2): 564-594

- **Properties of Balanced Permutations** *JOURNAL OF COMPUTATIONAL BIOLOGY*
  Southworth, L. K., Kim, S. K., Owen, A. B.
  2009; 16 (4): 625-638

- **Recycling physical random numbers** *ELECTRONIC JOURNAL OF STATISTICS*
  Owen, A. B.
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- **Calibration of the empirical likelihood method for a vector mean** *ELECTRONIC JOURNAL OF STATISTICS*
  Emerson, S. C., Owen, A. B.
  2009; 3: 1161-1192

- **Monte Carlo and Quasi-Monte Carlo for Statistics** *8th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing (MCQMC 08)*
  Owen, A. B.
  SPRINGER-VERLAG BERLIN.2009: 3–18

- **LOCAL ANTITHETIC SAMPLING WITH SCRAMBLED NETS** *ANNALS OF STATISTICS*
  Owen, A. B.
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- **Construction of weakly CUD sequences for MCMC sampling** *ELECTRONIC JOURNAL OF STATISTICS*
  Tribble, S. D., Owen, A. B.
  2008; 2: 634-660

- **THE PIGEONHOLE BOOTSTRAP** *ANNALS OF APPLIED STATISTICS*
  Owen, A. B.
  2007; 1 (2): 386-411

- **AGEMAP: A gene expression database for aging in mice** *PLOS GENETICS*
  Zahn, J. M., Poosala, S., Owen, A. B., Ingram, D. K., Lustig, A., Carter, A., Weeraratna, A. T., Taub, D. D., Gorospe, M., Mazan-Mamczarz, K., Lakatta, E. G., Boheler, K. R., Xu, et al
  2007; 3 (11): 2326-2337

- **Infinitely imbalanced logistic regression** *JOURNAL OF MACHINE LEARNING RESEARCH*
  Owen, A. B.
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- **A robust hybrid of lasso and ridge regression** *AMS/IMS/SIAM Joint Summer Research Conference on Machine and Statistical Learning - Prediction and Discovery*
  Owen, A. B.
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- **Halton sequences avoid the origin** *SIAM REVIEW*
  Owen, A. B.
  2006; 48 (3): 487-503

- **Transcriptional profiling of aging in human muscle reveals a common aging signature** *PLOS GENETICS*
  Zahn, J. M., Sonu, R., Vogel, H., Crane, E., Mazan-Mamczarz, K., Rabkin, R., Davis, R. W., Becker, K. G., Owen, A. B., Kim, S. K.
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- **Estimating mean dimensionality of analysis of variance decompositions** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*

Liu, R., Owen, A. B.

2006; 101 (474): 712-721

- **On the Warnock-Halton quasi-standard error** *MONTE CARLO METHODS AND APPLICATIONS*

  Owen, A. B.

  2006; 12 (1): 47–54

- **Quasi-Monte Carlo for integrands with point singularities at unknown locations** *6th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing*

  Owen, A. B.

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- **A quasi-Monte Carlo Metropolis algorithm** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

  Owen, A. B., Tribble, S. D.

  2005; 102 (25): 8844-8849

- **Control variates for quasi-Monte Carlo** *STATISTICAL SCIENCE*

  Hickernell, F. J., Lemieux, C., Owen, A. B.

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- **Variance of the number of false discoveries** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*

  Owen, A. B.

  2005; 67: 411-426

- **A transcriptional profile of aging in the human kidney** *PLOS BIOLOGY*

  Rodwell, G. E., Sonu, R., Zahn, J. M., Lund, J., Wilhelmy, J., Wang, L. L., Xiao, W. Z., Mindrinos, M., Crane, E., Segal, E., Myers, B. D., Brooks, J. D., Davis, et al

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- **The host response to smallpox: Analysis of the gene expression program in peripheral blood cells in a nonhuman primate model** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

  Rubins, K. H., Hensley, L. E., JAHRLING, P. B., Whitney, A. R., Geisbert, T. W., HUGGINS, J. W., Owen, A., LEDUC, J. W., Brown, P. O., Relman, D. A.

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- **Genomic research and human subject privacy** *SCIENCE*

  Lin, Z., Owen, A. B., Altman, R. B.

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- **Nomogram for predicting the likelihood of delayed graft function in adult cadaveric renal transplant recipients** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*

  Irish, W. D., Mccollum, D. A., Tesi, R. J., Owen, A. B., Brennan, D. C., Bailly, J. E., Schnitzler, M. A.

  2003; 14 (11): 2967–74

- **A gene recommender algorithm to identify coexpressed genes in C-elegans** *GENOME RESEARCH*

  Owen, A. B., Stuart, J., Mach, K., Villeneuve, A. M., Kim, S.

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- **A Bayesian framework for combining heterogeneous data sources for gene function prediction (in Saccharomyces cerevisiae)** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

  Troyanskaya, O. G., Dolinski, K., Owen, A. B., Altman, R. B., Botstein, D.

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- **Monthly Strontium/Calcium oscillations in symbiotic coral aragonite: Biological effects limiting the precision of the paleotemperature proxy** *GEOPHYSICAL RESEARCH LETTERS*

  Meibom, A., Stage, M., Wooden, J., Constantz, B. R., Dunbar, R. B., Owen, A., Grumet, N., Bacon, C. R., CHAMBERLAIN, C. P.

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- **Quasi-regression with shrinkage** *3rd IMACS Seminar on Monte Carlo Methods (MCM 2001)*

  Jiang, T., Owen, A. B.

  ELSEVIER SCIENCE BV.2003: 231–41

- **Data squashing by empirical likelihood** *DATA MINING AND KNOWLEDGE DISCOVERY*
  Owen, A.
  2003; 7 (1): 101-113

- **The dimension distribution and quadrature test functions** *STATISTICA SINICA*
  Owen, A. B.
  2003; 13 (1): 1-17

- **Plaid models for gene expression data** *STATISTICA SINICA*
  Lazzeroni, L., Owen, A.
  2002; 12 (1): 61-86

- **Quasi-regression** *Workshop on the Complexity of Multivariate Problems*
  An, J., Owen, A.
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- **Safe and effective importance sampling** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
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- **Assessing linearity in high dimensions** *ANNALS OF STATISTICS*
  Owen, A. B.
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- **Advances in importance sampling** *Computational Finance 1999 Conference*
  Owen, A., Zhou, Y.
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- **Monte Carlo, quasi-Monte Carlo, and randomized quasi-Monte Carlo** *3rd International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing (MCQM 98)*
  Owen, A. B.
  SPRINGER-VERLAG BERLIN.2000: 86–97

- **Scrambling Sobol' and Niederreiter-Xing points** *JOURNAL OF COMPLEXITY*
  Owen, A. B.
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- **Monte Carlo extension of quasi-Monte Carlo** *1998 Winter Simulation Conference on Simulation in the 21st-Century (WSC 98)*
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- **Scrambled net variance for integrals of smooth functions** *ANNALS OF STATISTICS*
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- **NONPARAMETRIC LIKELIHOOD CONFIDENCE BANDS FOR A DISTRIBUTION FUNCTION** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
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- **CONTROLLING CORRELATIONS IN LATIN HYPERCUBE SAMPLES** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
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- **ASYMPTOTICALLY OPTIMAL BALLOON DENSITY ESTIMATES** *JOURNAL OF MULTIVARIATE ANALYSIS*
  Hall, P., Huber, C., Owen, A., Coventry, A.
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- **LATTICE SAMPLING REVISITED - MONTE-CARLO VARIANCE OF MEANS OVER RANDOMIZED ORTHOGONAL ARRAYS** *ANNALS OF STATISTICS*

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- **OVERFITTING IN NEURAL NETWORKS** *26th Symposium on the Interface of Computing Science and Statistics - Computationally Intensive Statistical Methods*

  Owen, A. B.

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- **NEURAL NETWORKS AND RELATED METHODS FOR CLASSIFICATION - DISCUSSION** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*

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- **EMPIRICAL LIKELIHOOD FOR LINEAR-MODELS** *ANNALS OF STATISTICS*

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- **MULTIVARIATE ADAPTIVE REGRESSION SPLINES - DISCUSSION** *ANNALS OF STATISTICS*

  Owen, A.

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- **EMPIRICAL LIKELIHOOD RATIO CONFIDENCE-REGIONS** *ANNALS OF STATISTICS*

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- **SMOOTHING WITH SPLIT LINEAR FITS** *TECHNOMETRICS*

  McDonald, J. A., Owen, A. B.

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