

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, (2018-2021)

HONORS AND AWARDS

- SIAM Fellow, Society for Industrial and Applied Mathematics (2024)
- Gold medal, Statistical Society of Canada (2021)
- Noether Distinguished Scholar, American Statistical Association (2020)

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

2025-26

- Consulting Workshop: STATS 390 (Spr)
- Topic: Monte Carlo: STATS 362 (Spr)

2024-25

- Applied Multivariate Analysis: BIODS 206, STATS 206 (Spr)
- Design of Experiments: STATS 263, STATS 363 (Win)
- Literature of Statistics: STATS 319 (Spr)

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)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Wenlong Ji, Leda Liang, Sophia Lu, Michael Salerno, Maggie Wang, Ivy Zhang

Orals Evaluator

Will Hartog, Ran Xie

Doctoral Dissertation Advisor (AC)

Valérie, Ngoc Phuc Ho

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Data Science (Phd Program)

Publications

PUBLICATIONS

- **Empirical Bernstein and betting confidence intervals for randomized quasi-Monte Carlo** *INFORMATION AND INFERENCE-A JOURNAL OF THE IMA*
Jain, A., Hickernell, F. J., Owen, A. B., Sorokin, A. G.
2026; 15 (1)
- **Constrained Design of a Binary Instrument in a Partially Linear Model.** *Observational studies*
Morrison, T., Nguyen, M., Chen, J., Baiocchi, M., Owen, A. B.
2025; 11 (3): 213-248
- **Skewness of a randomized quasi-Monte Carlo estimate** *JOURNAL OF COMPLEXITY*
Pan, Z., Owen, A. B.
2025; 90
- **Constrained Design of a Binary Instrument in a Partially Linear Model** *Observational Studies*
Morrison, T., Nguyen, M., Chen, J. H., Baiocchi, M., Owen, A. B.
2025; 11 (3)
- **Scalable solutions for crossed random-effect models with random slopes** *ELECTRONIC JOURNAL OF STATISTICS*
Ghandwani, D., Ghosh, S., Hastie, T., Owen, A.
2025; 19 (2): 5368-5408
- **Double machine learning and design in batch adaptive experiments** *JOURNAL OF CAUSAL INFERENCE*
Li, H. H., Owen, A. B.
2024; 12 (1)
- **Computable error bounds for quasi-Monte Carlo using points with non-negative local discrepancy** *INFORMATION AND INFERENCE-A JOURNAL OF THE IMA*
Gnewuch, M., Kritzer, P., Owen, A. B., Pan, Z.
2024; 13 (3)

- **SUPER-POLYNOMIAL ACCURACY OF MULTIDIMENSIONAL RANDOMIZED NETS USING THE MEDIAN-OF-MEANS** *MATHEMATICS OF COMPUTATION*
Pan, Z., Owen, A. B.
2024
- **Estimating means of bounded random variables by betting** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
Owen, A. B.
2024; 86 (1)
- **A central limit theorem for the Benjamini-Hochberg false discovery proportion under a factor model** *BERNOULLI*
Kluger, D. M., Owen, A. B.
2024; 30 (1): 743-769
- **GAIN COEFFICIENTS FOR SCRAMBLED HALTON POINTS** *SIAM JOURNAL ON NUMERICAL ANALYSIS*
Owen, A. B., Pan, Z.
2024; 62 (3): 1021-1038
- **Multivariate tie-breaker designs** *ELECTRONIC JOURNAL OF STATISTICS*
Morrison, T. P., Owen, A. B.
2024; 18 (2): 4612-4639
- **Variable Importance Without Impossible Data** *ANNUAL REVIEW OF STATISTICS AND ITS APPLICATION*
Mase, M., Owen, A. B., Seiler, B. B.
2024; 11: 153-178
- **MEAN DIMENSION OF RADIAL BASIS FUNCTIONS** *SIAM JOURNAL ON NUMERICAL ANALYSIS*
Hoyt, C., Owen, A. B.
2024; 62 (3): 1191-1211
- **A GENERAL CHARACTERIZATION OF OPTIMAL TIE-BREAKER DESIGNS** *ANNALS OF STATISTICS*
Li, H. H., Owen, A. B.
2023; 51 (3): 1030-1057
- **The nonzero gain coefficients of Sobol's sequences are always powers of two** *JOURNAL OF COMPLEXITY*
Pan, Z., Owen, A. B.
2023; 75
- **Combining observational and experimental datasets using shrinkage estimators.** *Biometrics*
Rosenman, E. T., Basse, G., Owen, A. B., Baiocchi, M.
2023
- **Deletion and Insertion Tests in Regression Models** *JOURNAL OF MACHINE LEARNING RESEARCH*
Hama, N., Mase, M., Owen, A. B.
2023; 24
- **Kernel regression analysis of tie-breaker designs** *ELECTRONIC JOURNAL OF STATISTICS*
Kluger, D. M., Owen, A. B.
2023; 17 (1): 243-290
- **PREINTEGRATION VIA ACTIVE SUBSPACE** *SIAM JOURNAL ON NUMERICAL ANALYSIS*
Liu, S. N., Owen, A.
2023; 61 (2): 495-514
- **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
- **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.
edited by Keller, A.
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 71-86
 - **Scalable logistic regression with crossed random effects** *ELECTRONIC JOURNAL OF STATISTICS*
Ghosh, S., Hastie, T., Owen, A. B.
2022; 16 (2): 4604-4635
 - **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. T. 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.
2009; 3: 1531-1541
- **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.
2008; 36 (5): 2319-2343
- **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.
2007; 8: 761-773
- **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.
AMER MATHEMATICAL SOC.2007: 59–71
- **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.
2006; 2 (7): 1058-1069
- **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.
SPRINGER-VERLAG BERLIN.2006: 403–417

- **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.
2005; 20 (1): 1-18
- **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
2004; 2 (12): 2191-2201
- **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.
2004; 101 (42): 15190-15195
- **Genomic research and human subject privacy** *SCIENCE*
Lin, Z., Owen, A. B., Altman, R. B.
2004; 305 (5681): 183-183
- **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.
2003; 13 (8): 1828-1837
- **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.
2003; 100 (14): 8348-8353
- **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.
2003; 30 (7)
- **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.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2001: 588–607
- **Safe and effective importance sampling** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Owen, A., Zhou, Y.
2000; 95 (449): 135-143
- **Assessing linearity in high dimensions** *ANNALS OF STATISTICS*
Owen, A. B.
2000; 28 (1): 1-19
- **Advances in importance sampling** *Computational Finance 1999 Conference*
Owen, A., Zhou, Y.
M I T PRESS.2000: 53–65
- **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.
1998; 14 (4): 466-489
- **Monte Carlo extension of quasi-Monte Carlo** *1998 Winter Simulation Conference on Simulation in the 21st-Century (WSC 98)*
Owen, A. B.
IEEE.1998: 571–577
- **Scrambled net variance for integrals of smooth functions** *ANNALS OF STATISTICS*
Owen, A. B.
1997; 25 (4): 1541-1562
- **NONPARAMETRIC LIKELIHOOD CONFIDENCE BANDS FOR A DISTRIBUTION FUNCTION** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Owen, A. B.
1995; 90 (430): 516-521
- **CONTROLLING CORRELATIONS IN LATIN HYPERCUBE SAMPLES** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Owen, A. B.
1994; 89 (428): 1517-1522
- **ASYMPTOTICALLY OPTIMAL BALLOON DENSITY ESTIMATES** *JOURNAL OF MULTIVARIATE ANALYSIS*
Hall, P., Huber, C., Owen, A., Coventry, A.
1994; 51 (2): 352-371
- **LATTICE SAMPLING REVISITED - MONTE-CARLO VARIANCE OF MEANS OVER RANDOMIZED ORTHOGONAL ARRAYS** *ANNALS OF STATISTICS*
Owen, A.
1994; 22 (2): 930-945
- **OVERFITTING IN NEURAL NETWORKS** *26th Symposium on the Interface of Computing Science and Statistics - Computationally Intensive Statistical Methods*
Owen, A. B.
INTERFACE FOUNDATION NORTH AMERICA.1994: 57–62
- **NEURAL NETWORKS AND RELATED METHODS FOR CLASSIFICATION - DISCUSSION** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*

Whittle, P., Kay, J., Hand, D. J., Tarassenko, L., Brown, P. J., Titterington, D. M., TAYLOR, C., Gilks, W. R., Critchley, F., Mayne, A. J., Wahba, G., Luttrell, S. P., Baczkowski, et al
1994; 56 (3): 437-456

- **ORTHOGONAL ARRAYS FOR COMPUTER EXPERIMENTS, INTEGRATION AND VISUALIZATION** *STATISTICA SINICA*
Owen, A. B.
1992; 2 (2): 439-452
- **A CENTRAL-LIMIT-THEOREM FOR LATIN HYPERCUBE SAMPLING** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-METHODOLOGICAL*
Owen, A. B.
1992; 54 (2): 541-551
- **EMPIRICAL LIKELIHOOD FOR LINEAR-MODELS** *ANNALS OF STATISTICS*
Owen, A.
1991; 19 (4): 1725-1747
- **MULTIVARIATE ADAPTIVE REGRESSION SPLINES - DISCUSSION** *ANNALS OF STATISTICS*
Owen, A.
1991; 19 (1): 102-112
- **EMPIRICAL LIKELIHOOD RATIO CONFIDENCE-REGIONS** *ANNALS OF STATISTICS*
Owen, A.
1990; 18 (1): 90-120
- **USING SIMULATORS TO MODEL TRANSMITTED VARIABILITY IN IC MANUFACTURING** *IEEE TRANSACTIONS ON SEMICONDUCTOR MANUFACTURING*
Sharifzadeh, S., Koehler, J. R., Owen, A. B., SHOTT, J. D.
1989; 2 (3): 82-93
- **EMPIRICAL LIKELIHOOD RATIO CONFIDENCE-INTERVALS FOR A SINGLE FUNCTIONAL** *BIOMETRIKA*
Owen, A. B.
1988; 75 (2): 237-249
- **SMOOTHING WITH SPLIT LINEAR FITS** *TECHNOMETRICS*
McDonald, J. A., Owen, A. B.
1986; 28 (3): 195-208
- **STATISTICS, IMAGES, AND PATTERN-RECOGNITION - DISCUSSION** *CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE*
Hinkley, D. V., Morris, C. N., Moore, M., Owen, A., Chellappa, R.
1986; 14 (2): 102-111