

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Ori Rosen		POSITION TITLE Professor	
eRA COMMONS USER NAME None			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Technion, Israel	Bachelors	1986	Industrial Eng. & Mgmt.
Technion, Israel	Masters	1992	Statistics
Technion, Israel	Ph.D.	1996	Statistics

Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

A. Postions and Honors

2013 – present Professor, University of Texas at El Paso, Department of Mathematical Sciences.
 2005 – 2013 Associate Professor, University of Texas at El Paso, Department of Mathematical Sciences.
 1998 – 2005 Assistant Professor, University of Pittsburgh, Department of Statistics.
 1996 – 1998 Mellon Postdoctoral Fellow, Northwestern University, Department of Statistics.

B. Selected Peer reviewed Publications**Publications**

Edited Book

King, G., Rosen, O and Tanner, M.A. (eds.) Ecological Inference: New Methodological Strategies, Cambridge University Press (2004).

Journal Articles

1. Rosen, O. and Cohen, A. 'Constructing a Bootstrap Confidence Interval for the Unknown Concentration in Radioimmunoassay', *Statistics in Medicine*, 14, 935–952 (1995).
2. Rosen, O. and Weissman, I. 'Comparison of Estimation Methods in Extreme Value Theory', *Communications in Statistics: Theory and Methods*, 25, 759–773 (1996).
3. Rosen, O. and Tanner, M. 'Mixtures of Proportional Hazards Regression Models', *Statistics in Medicine*, 18, 1119–1131 (1999).
4. King, G., Rosen, O. and Tanner, M. 'Binomial-Beta Hierarchical Models for Ecological Inference', *Sociological Methods and Research*, 28, 61–90 (1999). (special issue on Bayesian methods in the social sciences)
5. Rosen, O., Jiang, W. and Tanner, M. 'Mixtures of Marginal Models'. *Biometrika*, 87, 391–404 (2000).
6. Rosen, O., Jiang, W., King, G. and Tanner, M.A. 'Bayesian and Frequentist Inference for Ecological Inference: the $R \times C$ Case', *Statistica Neerlandica*, 55, 134–156 (2001) (special issue on analysis of repeated cross-sectional data)
7. Liao, J. and Rosen, O. 'Fast and Stable Algorithms for Computing and Sampling from the Noncentral Hypergeometric Distribution', *The American Statistician*, 55, 366–369 (2001).

8. Rosen, O. and Cohen, A. 'Analysis of Growth Curves via Mixtures', *Statistics in Medicine*, 22, 3641–3654 (2003).
9. Shalabh, Gleser, L.J. and Rosen, O. 'On the Usefulness of Knowledge of Error Variables in the Consistent Estimation of an Unreplicated Ultrastructural Model', *Journal of Statistical Computation and Simulation*, 74, 391–417 (2004).
10. Rosen, O. and Stoffer, D. 'Automatic Estimation of Multivariate Spectra via Smoothing Splines', *Biometrika*, 94, 335-345 (2007).
11. Sun, Z., Rosen, O. and Sampson, A.R. 'Multivariate Bernoulli Mixture Models with Application to Postmortem Tissue Studies in Schizophrenia', *Biometrics*, 63, 901-909 (2007).
12. Thompson, W. and Rosen, O. 'A Bayesian Model for Sparse Functional Data', *Biometrics*, 64, 54-63 (2008).
13. King, G., Rosen, O. and Tanner, M.A. 'Ecological Inference', *The New Palgrave Dictionary of Economics* (2008)
14. King, G., Rosen, O., Tanner, M.A. and Wagner, A. 'The Ordinary Election of Adolf Hitler: A Modern Voting Behavior Approach', *J. of Economic History*, 68, 951-996 (2008).
15. Rosen, O., Stoffer, D. and Wood, S. 'Local Spectral Analysis via a Bayesian Mixture of Smoothing Splines', *J. of the American Statistical Association*, 104, 249-262 (2009).
16. Rosen, O. and Thompson, W. 'A Bayesian Regression Model for Multivariate Functional Data', *J. of Computational Statistics and Data Analysis*, 53, 3773-3786 (2009).
17. Wood, S., Rosen, O. and Kohn, R. 'Bayesian Mixtures of Autoregressive Models', *J. of Computational and Graphical Statistics*, 20, 174-195 (2011).
18. Rosen, O., Wood, S. and Stoffer, D.S. 'AdaptSPEC: Adaptive Spectral Estimation for Nonstationary Time Series', *J. of the American Statistical Association*, 107 (2012).
19. Rosen, O. and Thompson, W. 'Bayesian Semiparametric Copula Estimation with Application to Psychiatric Genetics', *Biometrical Journal* 57, 468-484 (2015).
20. Krafty, R.T., Rosen, O., Stoffer, D.S., Buysse, D.J., and Hall, M. 'Analysis of Replicated Multiple Time Series with Application to Nocturnal Physiology', *J. of the American Statistical Association*, to appear.
21. Bertolacci, M., Cripps, E., Rosen, O., Lau, J. and Cripps, S. 'A Spatio-Temporal Mixture Model for Australian Daily Rainfall, 1876-2015', submitted.

Refereed Proceedings Articles

1. Rosen, O. and Cohen, A. 'Computational Aspects in Maximum Penalized Likelihood Estimation', in *Statistical Modelling: Proceedings of the 10th International Workshop on Statistical Modelling*, Lecture Notes in Statistics, 104, eds. G.U.H. Seeber, B.J. Francis, R. Hatzinger and G. Steckel-Berger, Springer Verlag (1995).
2. Rosen, O. and Cohen, A. 'Extreme Percentile Regression', in *Statistical Theory and Computational Aspects of Smoothing*, eds. W. Hardle and M.G. Schimek, Contribution to Statistics, Physica Verlag, pp. 200–214 (1996).

C. Support

1. National Science Foundation
8/15/2015-7/31/18
Bayesian Time Series Methods in the Frequency Domain
O. Rosen: PI
Award DMS-1512188
Total Amount: \$250,653
2. National Security Agency
1/15/12-1/14/14
Bayesian Analysis of Correlated Data

Principal Investigator/Program Director (Last, First, Middle):

O. Rosen: PI
Award H98230-12-1-0246
Total Amount: \$61,930

3. National Science Foundation
8/1/08-7/31/11
Flexible Statistical Methods for the Analysis of Correlated Multivariate Data
O. Rosen: PI
Award DMS-0804140
Total Amount: \$120,000