

## Publication by J. S. Marron:

(last revised July 2008)

### Refereed papers/articles:

“Support Vector Machine for Data on Manifolds: An Application to Image Analysis”, Sen, S., Foskey, M., Marron, J. S. and Styner, M. (2008) IEEE International Symposium on Biomedical Imaging, Paper Code: SA-P1b.3

“A scale-based approach to finding effective dimensionality in manifold learning”, Wang, X. and Marron, J. S. (2008) *Electronic Journal of Statistics*, 2, 127-148.

“The high-dimension, low-sample-size geometric representation holds under mild conditions”, Ahn, J., Marron, J. S., Muller, K. M. and Chi, Y.-Y. (2007) *Biometrika*, 94, 760-766.

“Distance Weighted Discrimination”, Marron, J. S., Todd, M. J. and Ahn, J. (2007) *Journal of the American Statistical Association*, 102, 1267-1271.

“Analysis of nonlinear modes of variation for functional data”, Izem, R. and Marron, J. S. (2007) *Electronic Journal of Statistics*, 1, 641-676.

“Object oriented data analysis: sets of trees”, Wang, H. and Marron, J. S. (2007) *Annals of Statistics*, 35, 1849-1873.

“Singular Value Decomposition and Its Visualization”, Zhang, L. Marron, J. S., Shen, H. and Zhu, Z. (2007), *Journal of Computational and Graphical Statistics*, 16, 833-854.

“SiZer for time series: a new approach to the analysis of trends”, Rondonotti, V., Marron, J. S. and Park, C. (2007) *Electronic Journal of Statistics*, 1, 268-289 (<http://dx.doi.org/10.1214/07-EJS006>).

“A 10-gene classifier for distinguishing head and neck squamous cell carcinoma and lung squamous cell carcinoma” Vachani, A., Nebozhyn, N., Singhal, S., Alila, L., Wakeam, E., Muschel, R., Powell, C. A., Gaffney, P., Singh, B., Brose, M. S., Litzky, L. A., Kucharczuk, J., Kaiser, L. R., Marron, J. S., Showe, M. K., Albelda, S. M., Showe, L. C. (2007) *Clinical Cancer Research*, 13, 2905-15

“Visualization and inference based on wavelet coefficients, SiZer and SiNos”, Park, C., Godtliebsen, F., Stoev, S., Taqqu, M. and Marron, J. S. (2007) *Computational Statistics and Data Analysis*, 51, 5994-6012.

“Discrimination Analysis using Multi-object Statistics of Shape and Pose”, Gorczowski, K., Styner, M., Jeong, J.-Y., Marron, J. S., Piven, J., Hazlett, H. C., Pizer, S. M. and Gerig, G. (2007) *Proc SPIE*, vol. 6512, no. , pp. 1-8.

- “Statistical Shape Analysis of Multi-Object Complexes”, Gorczowski, K., Styner, M., Jeong, J.-Y., Marron, J. S., Piven, J., Hazlett, H. C., Pizer, S. M. and Gerig, G. (2007) *IEEE – Computer Vision and Pattern Recognition 2007*, pp. 1-8, June 2007.
- “The high-dimension, low-sample-size geometric representation holds under mild conditions”, Ahn, J., Marron, J. S., Muller, K. M. and Chi, Y. – Y. (2007) *Biometrika*, 94, 760-766.
- “SiZer for jump detection”, Kim, C. S. and Marron, J. S. (2006) *Journal of Nonparametric Statistics*, 18, 13-20.
- “The molecular portraits of breast tumors are conserved across microarray platforms”, Hu, Z., Fan, C., Oh, D. S., Marron, J. S. He, X., Qaqish, B. F., Livasy, C., Carey, L. A., Reynolds, E., Dressler, L., Nobel, A., Parker, J., Ewend, M. G., Sawyer, L. R., Wu, J., Liu, Y., Nanda, R., Tretiakova, M., Orrico, A. R., Dreher, D., Palazzo, J. P., Perreard, L., Nelson, E., Mone, M., Hansen, H., Mullins, M., Quackenbush, J. F., Ellis, M. J., Olopade, O. I., Bernard, P. S., Perou, C. M. (2006) *BMC Genomics*, 7, 96.
- “LASS: a tool for the local analysis of self-similarity”, Stoev, S., Taqqu, M., Park, C., Michailidis, G. and Marron, J. S. (2006) *Computational Statistics and Data Analysis*, 50, 2447-2471.
- “Discrimination of Mechanical Response to ARFI Excitation in a Raised Atherosclerotic Plaque”, Levy, J. H., Behler, R., Haider, M. A., Marron, J. S. and Gallippi, C. M. (2006) *MICCAI Workshop on Computer Vision for Intravascular and Intracardiac Imaging* (G. Unal, I. Kakadiaris, G. Slabaugh, and A. Tannebaum, eds.), 58-65.
- “Advanced distribution theory for SiZer”, Hannig, J. and Marron, J. S. (2006) *Journal of the American Statistical Association*, 101, 484-499.
- “Long-range dependence in a changing internet traffic mix”, Park, C., Hernandez-Campos, F., Marron, J. S. and Smith, F. D. (2005) *Computer Networks*, 48, 401-422.
- “On the wavelet spectrum diagnostic for Hurst parameter estimation in the analysis of Internet traffic”, Stoev, S., Taqqu, M. S., Park, C. and Marron, J. S. (2005) *Computer Networks*, 48, 423-445.
- “Local Likelihood SiZer map”, Li, R. and Marron, J. S. (2005) *Sankhya*, 67, 476-498.
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- “Good writing in Mathematical Statistics”, (1999) Marron, J. S., *Statistica Neerlandica*, .53, 68-76.

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- “Visual error criteria for qualitative smoothing”, J. S. Marron and A. B. Tsybakov (1995) *Journal of the American Statistical Association*, 90, 499-507.
- “Improved variable window estimators of probability densities”, with P. Hall and T. C. Hu (1995) *Annals of Statistics*, 23, 1-10.
- “Fast and Simple Smoothing Parameter Selection”, W. Härdle and J. S. Marron (1995) *Computational Statistics and Data Analysis*, 20, 1-17.
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- “Semiparametric comparison of regression curves”, W. Härdle and J. S. Marron (1990) *Annals of Statistics*, 18, 63-89.
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- “Choice of kernel order in density estimation”, P. Hall and J. S. Marron (1988), *Annals of Statistics*, 16, 161-173.
- “How far are automatically chosen regression smoothing parameter selectors from their optimum?”, W. Härdle, P. Hall and J. S. Marron (1988), *Journal of the American Statistical Association*, 83, 86-101 (with discussion).

- “Equivalence of smoothing parameter selectors in density and intensity estimation”, P. Diggle and J. S. Marron (1988) *Journal of the American Statistical Association*, 83, 793-800.
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- “Automatic smoothing parameter selection: a survey”, J. S. Marron (1988) *Empirical Economics*, 13, 187-208 (also in *Semiparametric and Nonparametric Econometrics*, 1989 Ed: A. Ullah, Physica Verlag, Heidelberg, 65-86).
- “Variable window width kernel estimates of probability densities”, P. Hall and J. S. Marron, (1988) *Probability Theory and Related Fields*, 80, 37-49.
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- “Estimation of integrated squared density derivatives”, P. Hall and J. S. Marron (1987) *Statistics and Probability Letters*, 6, 109-115.
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- “Random approximations to some measures of accuracy in nonparametric curve estimation”, J. S. Marron and W. Härdle (1986) *Journal of Multivariate Analysis*, 20, 91-113.
- “Asymptotic nonequivalence of some bandwidth selectors in nonparametric regression”, W. Härdle and J. S. Marron (1985) *Biometrika*, 72, 481-484.
- “An asymptotically efficient solution to the bandwidth problem of kernel density estimation”, J. S. Marron (1985) *Annals of Statistics*, 13, 1011-1023.
- “Optimal bandwidth selection in nonparametric regression function estimation”, W. Härdle and J. S. Marron (1985) *Annals of Statistics*, 13, 1465-1481.

“Bandwidth choice in nonparametric regression function estimation”, W. Härdle and J. S. Marron (1985) *Statistics and Decisions*, Sup. 2, 173-177.

“Optimal rates of convergence to Bayes risk in nonparametric discrimination”, J. S. Marron (1983) *Annals of Statistics*, 11, 1142-1155.

Research Papers Accepted for Publication:

“Mathematical Statistics in Medical Imaging”, to appear in *Oberwolfach Reports*, proceedings of meeting on “New Inference Concepts for Analysing Complex Data”.

“Maximal Data Piling in Discrimination”, with J. Ahn (tentatively accepted by *Biometrika*).

“Motion Picture Analysis of Smoothing”, with D. Ruppert, E. Smith and G. Conley, tentatively accepted by *Journal of Educational Statistics*.

**Refereed unpublished oral presentations and/or abstracts:**

(These are not common in Statistics)

**Other unrefereed works, including book reviews:**

Minimally Refereed or Unrefereed Publications:

“Quantifying Nonlinear Modes of Variation of Curves”, (2003) with R. Izem, *Proceedings of the 54th Session of the International Statistical Institute*.

“Analyzing variation in thermal performance curves”, (2003), with R. Izem and J. G. Kingsolver, *Integrative and Comparative Biology*, 43, 929-929.

“Mice and Elephants Visualization of Internet Traffic”, with Hernández-Campos, F. and Smith, F. D. (2002) in *COMPSTAT 2002 - Proceedings in Computational Statistics - 15th Symposium held in Berlin*, eds. Härdle, W. and Rönz, B., Physika Verlag, Heidelberg.

“Visual Challenges in Internet Traffic”, (2002) with Bárbara González-Arévalo, F. Hernandez-Campos, and C. Park, in *Proceedings of the Workshop on Data Visualization for large data sets and Data Mining, 2002*, Augsburg, Germany.

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“Significance in Scale-Space for Clustering”, with F. Gotliebsen and S. M. Pizer, in *Spatial Cluster Modelling*, Lawson, A. B. and Denison, D. G. T., Eds., Chapman and Hall / CRC Press, 23-37.

- “Bandwidth selection”, (1999) in *Encyclopedia of Statistical Science, Update Volume 3*, eds. S. Kotz, C. B. Read, D. L. Banks, Wiley New York, 18-20.
- “Connected Teaching of Statistics”, with Härdle, W. and Klinke, S. (1999) in *Statistical Computing & Graphics Newsletter*, 10, 12-20.
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- Book Review of *Functional Data Analysis*, by Ramsay, J. O. and Silverman, B. W. (1998) *Journal of the American Statistical Association*, 93, 1232.
- “Adapting to a new environment: how a legacy software organization copes with volatility and change”, with N. Staudenmayer, T. Graves, A. Mockus, H. Siy, L. Votta, D. Perry, 5th International Product Development Management Conference, European Institute for Advanced Studies in Management, May 25-26, 1998.
- “Significance of Features via SiZer”, with P. Chaudhuri (1998), in *Statistical Modelling, Proceedings of 13th International Workshop on Statistical Modelling*, Brian Marx and Herwig Friedl, Eds., 65-75.
- “When is a feature really there? The SiZer approach”, with P. Chaudhuri (1998), *Automatic Target Recognition VII*, Firooz A. Sadjadi, Editor, Proc. of SPIE vol. 3371, 306-312.
- “A personal view of smoothing and statistics”, (1996) in *Statistical Theory and Computational Aspects of Smoothing*, eds. W. Härdle and M. Schimek, 1-9 (with discussion, and rejoinder 103-112).
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- “Root n bandwidth selection”, (1991) in *Nonparametric Functional Estimation and Related Topics*, ed. G.G. Roussas, NATO ASI Series C: vol. 335, Kluwer Academic Publisher, Dordrecht, 251-260.
- “Window width”, article in *Encyclopedia of Statistical Science*, (1988, Johnson, N. L. and Kotz, S., Eds.)
- “What does optimal bandwidth selection mean for nonparametric regression estimation?”, (1987) in *Statistical Data Analysis Based on the L1 norm and related methods*, Dodge, Y. ed. North-Holland Amsterdam, 379-392.

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Research Papers Submitted for Publication:

“Statistical Significance of Clustering for High Dimension Low Sample Size Data”, Liu, Y., Hayes, D. N., Nobel, A. and Marron, J. S., submitted to *Journal of the American Statistical Association*.

“PCA Consistency in High Dimension, Low Sample Size Context”, Jung, S. and Marron, J. S. (2008), submitted to *Annals of Statistics*.

“MultiResolution Anomaly Detection Method for Long Range Time Series”, L. Zhang, Z. Zhu and J. S. Marron, submitted to *Statistica Sinica*.

“Time Series Functional Data Analysis”, with J. R. Wendelberger and E. M. Kober, submitted to *Journal of Computational and Graphical Statistics*.

“SiZer for Censored Density and Hazard Estimation”, with Jiancheng Jiang (submitted to *Journal of Computational and Graphical Statistics*).

“Long Range Dependence Analysis of Internet Traffic”, with Park, C., Hernandez-Campos, F., Le, L., Park, J., Pipiras, V. Smith, F. D., Smith, R. L., Trovero, M. and Zhu, Z. (submitted to *Statistical Science*).