

CURRICULUM VITAE

Ya'acov Ritov

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University of Michigan
— Department of Statistics
The Hebrew University of Jerusalem:
— Department of Statistics
— The center for the Study of Rationality
— Mr. and Mrs. Francis Hock Chair (emer.) in Statistics.

Academic Education:

1973 B.Sc. in Electrical Engineering (with Excellence), The Technion, Israel Institute of Technology.
1980 M.Sc. in Electrical Engineering, The Technion, Israel Institute of Technology.
1983 Ph.D. in Statistics (summa cum laude), The Hebrew University of Jerusalem Israel.

Awards:

1984 Alon fund Fellow.
2008 L. Meitner - A.v. Humboldt Research Award
2013 Medallion lecture, IMS-JSM.

Academic Appointments:

1980–1983 Teaching Assistant, The Hebrew University of Jerusalem.
1983–1984 Visiting Lecturer, Department of Statistics, University of California at Berkeley.
1983–1984 Lady Davis Postdoctoral fellow.
1984–1988 Lecturer, Department of Statistics, The Hebrew University of Jerusalem.
1984–1987 Alon fund fellow.
1989–1990 Senior Lecturer, Department of Statistics, The Hebrew University of Jerusalem.
1990–1990 Associate Professor, Department of Statistics, The Hebrew University of Jerusalem.
1990–2016 Professor, Department of Statistics, The Hebrew University of Jerusalem.
2016– Professor emeritus, Department of Statistics, The Hebrew University of Jerusalem.
1988–1990 Visiting Assoc. Prof., University of Pennsylvania.

1992–1994 Associate Editor, The Annals of Statistics.
1994–1995 Visiting Prof. University of California, Berkeley.
1995–1999 Chair, Department of Statistics, The Hebrew University.
2001–2003 President, Israel Statistical Association.
2004–2006 Associate Editor, Bernoulli.
2009–2012 Associate Editor, Annals of Statistics
2011–2015 Board of director. The Hebrew University Secondary School
2015–2016 (Visiting) Professor, Department of Statistics, U. of Michigan.
2016– Professor, Department of Statistics, U. of Michigan.

Membership in Professional Organizations: American Statistical Association.
Institute of Mathematical Statistics (fellow).
International Statistical Institute

Advanced Students:

1. Izhar Bar-Gad (PhD, ICNC, The Hebrew University)
2. Guy Leshem (PhD, Statistics, The Hebrew University)
3. Alon Zakai (PhD, ICNC, The Hebrew University)
4. Yair Goldberg (PhD, Statistics, The Hebrew University)
5. Daniel Gill (PhD, Statistics, The Hebrew University)
6. Song Song (PhD, Economics, Humboldt University)
7. Israel Feldman (PhD, The Hebrew University)
8. Michael Reich (M.Sc. The Technion)
9. Osama Eleimy (M.Sc. The Hebrew University)
10. Jonathan Yefe-Nof (PhD. The Hebrew University)
11. Saar Gershun (PhD. The Hebrew University)
12. Ariel Mansura (PhD. The Hebrew University)
13. Jonathan Sidi (PhD. The Hebrew University)
14. Daniel Nevo (PhD. The Hebrew University)
15. Yonatan Woodbridge (M.Sc. The Hebrew University)

16. Nhat Ho (PhD. U of Michigan).
17. Zhiyuan Lu (PhD U of Michigan)
18. Hamid Eftehari (Current, PhD U of Michigan)
19. Michael Law (Current, PhD U of Michigan)
20. Debarghya Mukherjee (Current, PhD U of Michigan)
21. Rudy Malka (Current, PhD the Hebrew University)

Grants

The ISF (Israel Science Foundation) grants are in the range \$30–40k/year.

1. Semiparametric methods for point processes (ISF, 2000–2004).
2. Nonstandard applications of classifiers (ISF, 2003–2006)
3. Hidden dimensions. Statistical inference for data on or near manifolds (ISF, 2006–2010).
4. Exploring the optimal forecasting frontiers (IARPA, CPI, 2012–2013).
5. Complex statistical models and time (ISF, 2010–2014).
6. Planes of Change: New Methods for Complex Non-Standard Problems.(NSF, 2017–2019, \$350,000 with Moulinath Banerjee).

Courses taught (last 7 years)

1. Advanced Statistical Models A. (Multivariate Analysis)
2. Advanced Statistical Models B. (Decision Theory)
3. Introduction To Probability and Stat for CS B
4. Asymptotic Efficiency
5. Asymptotic Statistics
6. Advanced Statistical Theory (PhD seminar)
7. Probability and Random Processes
8. Regression, Statistical Applications and Computation.
9. Statistical Theorey
10. Linear Models

Publications:**Theses:**

1. M.Sc. A linear pursuit game with an unknown trap (1980, adviser: M. Heymann).
2. Robust Bayes Procedures (1983, advisers: P. J. Bickel and Y. Yahav).

Books authored:

1. P.J. Bickel, C.A.G. Klaassen, Y. Ritov, and J.A. Wellner: *Efficient and Adaptive Estimation in Semiparametric Models*, Johns Hopkins University Press, (1994). 2nd edition, Springer Verlag, 1998.
2. Felix Abramovich; Ya'acov Ritov (2013). *Statistical Theory: A Concise Introduction*. Chapman & Hall/CRC Texts in Statistical Science

Books edited:

1. Yoel Haitovsky, Hans, Rudolf Lerche, Ya'acov Ritov (edt.) (2003): *Foundations of Statistical Inference*. Physica-Verlag, Heidelberg.
2. Jianqing Fan, Ya'acov Ritov, C.F. Jeff Wu (Editors, 2013), *Selected Works of Peter J. Bickel*. Springer, New York.

Articles:

1. M. Heymann and J. Ritov: On a linear pursuit game with an unknown trap. *J. of Optimization Theory and Applications* 42 (1982), 421–445.
2. Y. Ritov: Robust Bayes decision procedures: gross error on the data distribution. *The Annals of Statistics*, 13 (1985), 626–637.
3. M. Haviv and Y. Ritov: An approximation to the stationary distribution of a nearly completely decomposable Markov chain and its error bounds *SIAM J. of Algebraic and Discrete Methods* 7 (1986), 583–586.
4. M. Haviv, U. G. Rothblum, and Y. Ritov: Iterative methods for approximating the sub-dominant modulus of an eigen value of a non-negative matrix. *Linear Algebra and its Applications* 87 (1987), 61–76.
5. A. Melkman and Y. Ritov: Minimax estimation of the mean of a general distribution when the parameter of interest is restricted. *The Annals of Statistics*, 15 (1987), 432–442.
6. P. J. Bickel and Y. Ritov: Efficient estimation in the error in variables models. *The Annals of Statistics* 15 (1987), 513–540.
7. Y. Ritov: Asymptotic results in robust quasi - Bayesian estimation. *J. of Multivariate Analysis* 23 (1987), 290- 302.
8. Y. Ritov: Tightness of monotone random fields. *J. Roy. Statist. Soc.-B* (1987) 49 , 331–333.
9. M. Haviv and Y. Ritov: The variance of the waiting time in a queuing system with jockeying. *Stochastic Models* 4 (1988), 162–181.

10. Y. Ritov and J. A. Wellner: Censoring, martingale, and the Cox model, *Contemporary Mathematics (AMS)* (1988) Volume 80 on Statistical Inference for Stochastic processes, ed. N.H. Prabhu, pages 191–219.
11. D. Assaf and Y. Ritov: A double sequential procedure for detecting a change in distribution. *Biometrika* 75 (1988), 715–722.
12. P.J. Bickel and Y. Ritov: Estimating integrated squared density derivatives. *Sankhya A-50* (1988), 381–393.
13. Z. Gilula, A. M. Krieger, and Y. Ritov: Ordinal association in contingency tables: some interpretive aspects. *J. Amr. Statist. Assoc.* 83 (1989), 540–545.
14. Y. Ritov: Estimating a signal with noisy parameters. *Biometrika* 76 (1989), 31–38.
15. Y. Ritov: Monte Carlo computation of the mean of a function with convex support. *Computational Statistics and Data Analysis* 7 (1989), 269–277.
16. D. Assaf and Y. Ritov: A dynamic sampling procedure for detecting a change in the drift of Brownian motion: a non - Bayesian model. *The Annals of statistics* 17 (1989), 793–800.
17. Y. Ritov: Estimation of a linear regression model with censored data. *The Annals of Statistics* 18 (1990), 303–328.
18. Y. Ritov and P.J. Bickel: Achieving information bounds in semi and non parametric models. *The Annals of statistics* 18 , (1990), 925–938.
19. Y. Ritov: Decision theoretic optimality of the CUSUM procedure. *The Annals of statistics* 18 (1990), 1464–1469.
20. Y. Ritov: The convergence of an algorithm for finding the distance between a ball in a subspace and a sum of subspaces. *SIAM J. of Numerical Analysis*, 27 (1990), 1355–1367.
21. Y. Ritov: Asymptotic efficient estimation of the change point with unknown distributions. *The Annals of Statistics* 18 (1990), 1829–1839.
22. Z. Gilula and Y. Ritov: Inferential ordinal correspondence analysis: motivation derivation and limitation. *International Statistical Review*, 58 (1990), 99–108.
23. P.J. Bickel and Y. Ritov (1990): Comment on Silverman et al.: A smoothed EM approach to indirect estimation problems, with particular reference to sterology and tomography. *J. of the Royal Statist. Soc. B* 52, 311–312 .
24. Y. Ritov: Estimating functions in semiparametric models, in *Estimating Equations* (V.P. Godambe ed.) (1991), pp. 319–336. Oxford University Press.
25. P.J. Bickel, Y. Ritov, and J.A. Wellner: Efficient estimation of a probability measure P with known marginal distributions. *The Annals of Statistics* 19 (1991) 1316–1346.
26. P. J. Bickel and Y. Ritov: Large sample theory of estimation in biased sampling regression, model I. *The Annals of Statistics*, 19 (1991), 797–816.

27. J. Baron, P.C. Badgio, and Y. Ritov: Departures from optimal stopping in an anagram task. *Journal of Mathematical Psychology*, 35 , (1991), 41–63.
28. Y. Ritov and Z. Gilula: The order restricted MLE in RC model for order restricted contingency tables: estimation and testing for fit. *The Annals of Statistics*, 19 (1991), 2090–2101.
29. P.J. Bickel and Y. Ritov: Testing for Goodness of Fit: A New Approach, in *Nonparametric Statistics and Related Topics* (pp. 51–57), Ed.: A. K. Md. E. Saleh, Elsevier, Amsterdam. (1991)
30. D. Assaf, M. pollak and Y. Ritov: A new look at warning and action lines of surveillance schemes. *J. Amr. Statist. Assoc.* 87 (1992), 889–895..
31. M. Haviv, Y. Ritov, and U. G. Rothblum: Taylor expansions of eigenvalues of perturbed matrices with applications to spectral radii of non-negative matrices. *Linear Algebra and its Application* 168 (1992), 159–188.
32. D. Assaf and Y. Ritov: Adaptive sampling for detecting a change point in past. *Stochastic Analysis* 11 (1992), 237–255.
33. M. Haviv and Y. Ritov: On series expansions of stochastic matrices. *SIAM J. of Matrix analysis*, 14 (1993), 670–676.
34. S. Barasch and Y. Ritov: Pruning FFT frequencies. *IEEE transactions on Signal Processing* 41 (1993), 1398–1400.
35. D. Assaf, M. Pollak, Y. Ritov, and B. Yakir: Detecting a change of a normal mean by dynamic sampling with a probability bound on a false alarm. *The Annals of Statistics* 21, (1993), 1155–1165.
36. Y. Ritov and Z. Gilula: Analysis of contingency tables by correspondence models subject to order-constraints. *J. Amr. Statist. Assoc.* 88 (1993), 1380–1387.
37. P. J. Bickel and Y. Ritov: Efficient estimation using both direct and indirect observations. *Th. of Prob. and Appl.* 38 (1994) , 194–213. In Russian, *Teorija Verojatnostei i ee Primenenija*, 38, (1993), 233–258.
38. M. Haviv and Y. Ritov: Error bounds for non self-adjoint matrices. *Numerische. Mathematik*, 67 (1994), 491–450.
39. P.J. Bickel and Y. Ritov: Estimating linear functionals of a PET image. *IEEE Tr. of Medical Imaging*, 14 , (1995), 81–87.
40. M. Fygenon and Y. Ritov: Monotone estimating equations for the censored regression model *The Annals of Statistics*, 22 (1994) 732–746.
41. P. J. Bickel and Y. Ritov: “Ibragimov Hasminskii models” *Fifth Purdue International Symposium on Decision Theory and Related Topics*, (1993), pp 51–60.
42. P. J. Bickel, and Y. Ritov.: Discussion of papers by Feigelson and Nousek in *Statistical Challenges in Modern Astronomy* (E. Feigelson and G.J. Babu eds), (1993) Springer, New York.

43. P. J. Bickel and Y. Ritov: An exponential inequality for U-statistics with applications to testing, *Probability in the Engineering and Informational Sciences*, 9 (1995), 39–52.
44. Y. Ritov: PM algorithms for calculating minimum χ^2 estimators with partial observed tables. *Computational Statistics and Data Analysis*, 20 (1995), 19–33.
45. P. J. Bickel and Y. Ritov: LAN for ranks in transformation models. *Festschrift for Lucien Le Cam*, D. Pollard, E. Torgersen, and G. Yang eds (1997). Springer, New York.
46. P. J. Bickel and Y. Ritov: Inference in Hidden Markov Models I, *Bernoulli*, 2 (1996), 199–228.
47. D. Assaf and Y. Ritov: Dynamic sampling applied to problems in optimal control. *J. of Optimization Th. and Appl.*, 95 (1997), 565–580.
48. J. M. Robins and Y. Ritov: Toward A Curse of Dimensionality Appropriate (CODA) Asymptotic Theory for Semiparametric Models. *Statistics in Medicine*, 17 (1997), pp. 285–319.
49. M. Haviv and Y. Ritov: Externalities, Tangible Externalities and Queue Disciplines. *Management Science*, 44, (1998), 850–858. .
50. Karl F. Petty, Peter Bickel, Jiming Jiang, Michael Ostland, John Rice, Ya'acov Ritov, and Fred-eric Schoenberg: Accurate estimation of travel times from single-loop detectors. *Transportation Research: Part A—Policy and practice*, 32 (1998), 1–17.
51. Peter J. Bickel, Ya'acov Ritov and Tobias Rydén: Asymptotic normality of the maximum-likelihood estimator for general hidden Markov models, *The Annals of Statistics*, 26 (1998), 1614–1635.
52. Y. Ritov: Estimating mass and shape of domains in PET imaging. *Journal of Nonparametric Statistics*, 10 (1999), 47–66.
53. H. Pasula, S. Russell, M. Ostland, and Y. Ritov, “Tracking many objects with many sensors.” In Proc. IJCAI-99, Stockholm, 1999
54. P. J. Bickel and Y. Ritov: Non- and semiparametric statistics: compared and contrasted, *J. Stat. Plan. Infer.*, 91 (2000), 209–228.
55. E. Greenshtein and Y. Ritov: Sampling from a stationary process and detecting a change in the mean of a stationary distribution. *Bernoulli*, 6 (2000), 679–697.
56. P. J. Bickel and Y. Ritov: On profile likelihood. Discussion of S. Murphy and A. van der Vaart “On profile likelihood,” *J. Amr. Statist. Assoc.* 95 (2000), 466–468.
57. M. Osland, P. J. Bickel, K. Petty, J. Rice, Y. Ritov, and X. Zhang: “An EM/MCMC approach to travel time estimation and origin-destination counts.” A PATH report
58. I. Bar-Gad, Y. and H. Bergman (2000): “The neuronal refractory period causes a short-term peak in the autocorrelation function.” *Journal of Neuroscience Methods*, 104, 155–163.
59. M. Haviv, M. and Y. Ritov, Homogeneous Customers Renege from invisible queues at Random Times under deteriorating waiting conditions, *Queueing Systems*, 38 (2001), 495–508.

60. I. Bar-Gad, Y. Ritov, E. Vaadia, and H. Bergman (2001), "Failure in identification of overlapping spikes from multiple neuron recording causes artificial correlations," *Journal of Neuroscience Methods* **107**, 1–13.
61. Y. Ben Shaul, H. Bergman, Y. Ritov, and M. Ables: "Trial to Trial Variability in Stimulus or Action Causes Apparent Correlation and Synchrony in Neuronal Activity," *Journal of Neuroscience Methods*, J NEUROSCI METH 111 (2): 99-110 OCT 30 2001.
62. P. J. Bickel, Y. Ritov, and T. Rydén (2002): Hidden Markov model likelihoods and their derivatives behave like i.i.d. ones. *Annales de l'Institut Henri Poincaré-Pr*, 38 (6): 825–846 2002
63. Y. Ritov, A. Raz and H. Bergman (2002): Detection of onset of neuronal activity by allowing for heterogeneity in the change points. *Journal of Neuroscience Methods* **122** 25–42.
64. Bickel, P. and Ritov, Y. and Ryden, T. (2002). Hidden Markov and state space models asymptotic analysis of exact and approximate methods for prediction, filtering, smoothing and statistical inference. *Proceedings of the International Congress of Mathematicians, Vol. I (Beijing, 2002)* 555–556.
65. I. Bar-Gad, Y. Ritov and H. Bergman (2002): The High Frequency Discharge Of Pallidal Neurons Disrupts The Interpretation Of Pallidal Correlation Functions, *The Basal Ganglia VII, Advances in behavioral biology*, Vol 52 editors: Louise F.B. Nicholson and Richard L.M. Faull, Kluwer Academic/Plenum Publishers, Chapter 5, pp 35-42, 2002.
66. P. J. Bickel and Y. Ritov (2003), Non-Parametric Estimators Which Can Be 'Plugged-In', *The Annals of Statistics* , **31**, 1033-1053.
67. Izhar Bar-Gad, Gali Heimer, Ya'acov Ritov and Hagai Bergman: Functional correlations between neighboring neurons in the primate Globus Pallidus are weak or nonexistent. J NEUROSCI 23 (10): 4012-4016 MAY 15 2003
68. Y. Ritov (2003). Comments on: A theory of statistical models for Monte Carlo integration, by A. Kong, P. McCullagh, D. Nicolae, Z.Tan and X.-L.MengKong. JRSS-B **65**, 613.
69. P. J. Bickel and Y. Ritov (2003): The Golden Chain, a comment. *Ann. Stat.* **32**, 91–96.
70. Bryan G. Reuben , Ya'acov Ritov, Orit Geller, Melinda A. McFarland, Alan G. Marshall, Chava Lifshitz (2003): Applying a new algorithm for obtaining site specific rate constants for H/D exchange of the gas phase proton-bound arginine dimer; *Chemical Physics Letters*, **380**, 88-94.
71. G. Mosheiov, D. Oron, Y. Ritov (2004), Flow-shop batch scheduling with identical processing-time jobs. *Naval Research*, **51**, 783–799.
72. Greenshtein, E. and Ritov, Y. (2004) "Persistence in high dimensional linear predictor-selection and the virtue of over-parametrization," *Bernoulli*, **10**, 971–988.
73. Sklan, E.H, Lowenthal, A., Korner, M., Ritov, Y., Rankinen, T., Bouchard, C., Leon, A.S., Rao, D.C., Wilmore, J.H., Skinner, J.S. and Soreq, H. (2004). Acetylcholinesterase/paraoxonase genotype and expression predict anxiety scores in Health, Risk Factors, Exercise Training, and Genetics study. PNAS, 101, 5512-5517.

74. P. J. Bickel, Y. Ritov, and T. Stoker (2005): Nonparametric testing of an index model. *Identification and Inference for Econometric Models: A Festschrift in Honor of Thomas J. Rothenberg*, ed. by D. W. K. Andrews and J. H. Stock. Cambridge University Press, Cambridge (2005).
75. G. Mosheiov, D. Oron, Y. Ritov (2005), Minimizing flow-time on a single machine with integer batch sizes. *Operation Research Letters*, **33**, 497–501.
76. P. J. Bickel, Y. Ritov, and T. Stoker (2006): Tailor-made Tests for Goodness-of-Fit to Semiparametric Hypotheses. *Ann. Stat.*, **34**, 721–741.
77. Michal Rivlin-Etzion, Ya'acov Ritov, Gali Heimer, Hagai Bergman, Izhar Bar-Gad (2006) "Local shuffling of spike trains boosts the accuracy of spike train spectral analysis," *Journal of Neurophysiology*, **95**, 3245–3256.
78. P. J. Bickel, Y. Ritov, and A. Zakai (2006): "Some theory for generalized boosting algorithms" *Journal of Machine Learning Research*, **7**, 705–732.
79. Saul Lach, Ya'acov Ritov, and Avi Simhon (2006): LONGEVITY ACROSS GENERATIONS, Maurice Falk Institute for Economic Research in Israel, Hebrew University, Discussion Paper No. 06.01, Jerusalem 2006, 21 pages
80. Jon A. Wellner, Chris A. J. Klaassen, Ya'acov Ritov (2006): Semiparametric Models: a Review of Progress since BKRW (1993). In *Frontier of Statistics*, J. Fan and H. L. Koul (eds.) pp. 25–44.
81. Kjell Doksum and Ya'acov Ritov (2006): Our steps on the Bickel way. In *Frontier of Statistics*, J. Fan and H. L. Koul (eds.) pp. 1–24.
82. Guy Leshem and Ya'acov Ritov (2007): Traffic flow prediction using Adaboost algorithm with random forests as a weak learner. *Transactions On Engineering, Computing And Technology*, 193–198.
83. Daniel Gill, Ya'acov Ritov, and Gideon Dror (2007): Is Pinocchio's Nose Long or His Head Small? Learning Shape Distances for Classification. Lecture Notes In Computer Science, Proceedings of the 3rd international conference on Advances in visual computing. Part I, 652–661.
84. Ya'acov Ritov (2007): Comments following Candès and Tao: The Dantzig selector: statistical estimation when p is much larger than n . *Annals of Statistics*, **35**, 2370–2372.
85. Michel Broniatowski, Alexandre Depire And Ya'acov Ritov (2008). Bivariate Cox Models. In *Mathematical Methods in Survival Analysis, Reliability and Quality of Life*, Catherine Huber, Nikolaos Limnios, Mounir Mesbah, and Mikhail Nikulin Editors, ISTE and Wiley & Sons.
86. Peter J. Bickel, Ya'acov Ritov (2008) Response to Mease and Wyner, Evidence Contrary to the Statistical View of Boosting, *JMLR* 9:131–156, 2008: And Yet It Overfits. *Journal of Machine Learning Research* 9 (2008) 181–186.
87. Eitan Greenshtein, Junyong Park, Ya'acov Ritov (2008): Estimating the mean of high valued observations in high dimensions, *Journal of Statistical Theory and Practice*, **2**, 407–418.

88. Benjamin Kedem and Ya'acov Ritov (2008) Interview with Ya'acov Ritov. *Journal of Statistical Theory and Practice*, **2**, 493–496.
89. Y. Rabinowicz, I Roman and Y. Ritov (2008): “Advanced methodology for assessing distribution characteristics of paris equation coefficients to improve fatigue life prediction” . *Fatigue & Fracture of Engineering Materials & Structures*, **31**, 262–269.
90. Peter J. Bickel and Ya'acov Ritov (2008) Discussion of: treelets — an adaptive multi-scale basis for sparse unordered data , *Annals of Applied Statistics*, **2** 474-477..
91. Alon Zakai and Ya'acov Ritov (2008): How Local Should a Learning Method Be? COLT 2008, 205–216.
92. Thomas Trigano, Uri Israeles, and Ya'acov Ritov (2008): Semiparametric shift estimation for alignment of ECG data. EUSIPCO 2008.
93. Peter J. Bickel, Ya'acov Ritov, and Alexandre Tsybakov (2009). Simultaneous analysis of Lasso and Dantzig selector. *Annals of Statistics*, , **37**, 1705–1732.
94. E. Greenshtein and Y. Ritov (2008). Asymptotic efficiency of simple decisions for the compound decision problem, *The 3rd Lehmann Symposium, IMS Lecture-Notes Monograph series. vol. 57*. J. Rojo, editor. 266–275.
95. Yair Goldberg and Ya'acov Ritov (2009). Local Procrustes for Manifold Embedding: A measure of embedding quality and embedding algorithms. *Machine Learning*. **77**, 1–25.
96. R. Douc, E. Moulines, Y. Ritov (2009) Forgetting of the initial condition for the filter in general state-space hidden Markov chain: a coupling approach, *ELECTRONIC JOURNAL OF PROBABILITY* 14 Pages: 27-49.
97. Yair Goldberg, Alon Zakai, Dan Kushnir, Ya'acov Ritov (2008). Manifold Learning: The Price of Normalization. *JMLR* 9(Aug):1909–1939.
98. Yair Goldberg, Ya'acov Ritov (2008) LDR-LLE: LLE with Low-Dimensional Neighborhood Representation. 4th International Symposium on Visual Computing (ISVC08). *ADVANCES IN VISUAL COMPUTING, PT II, PROCEEDINGS* Volume: 5359 Pages: 43-54.
99. Elias, S, Ritov, Y. and Bergman, H. (2008) Balance of increases and decreases in firing rate of the spontaneous activity of basal ganglia high-frequency discharge neurons *Journal of Neurophysiology* **100**. 3086–3104..
100. Zakai, A., and Ritov, Y. (2009) “Consistency and Localizability.” *JMLR*, **10**, 827–856.
101. Ya'acov Ritov and Wolfgang K. Härdle (2007): Investors preference: Estimating and demixing of the weight function in semiparametric models for biased samples. SFB 649 Discussion Paper 2007-024, Humboldt University. *Statisica Sinica*, **20**, 771–785.
102. Ya'acov Ritov (2009). A random walk with drift: Interview with Peter J. Bickel. *Statistical Science*, to appear.

103. Adam Zaidel, Hagai Bergman, Ya'acov Ritov, and Zvi Israel (2010). Levodopa and subthalamic deep brain stimulation responses are not congruent. *Movement Disorder* **25**, 2379–2386.
104. Peter J. Bickel, Ya'acov Ritov, and Alexandre Tsybakov (2010). Hierarchical selection of variables in sparse high-dimensional regression. IMS Collections, *Borrowing Strength: Theory Powering Applications—A Festschrift for Lawrence D. Brown* **6**, 56–69.
105. Natalia Bochkina and Ya'acov Ritov (2011) Bayesian Perspectives on Sparse Empirical Bayes Analysis (SEBA). In "Inverse Problems and High-Dimensional Estimation Inverse Problems and High-Dimensional Estimation," Alquier, Pierre; Gautier, Eric; Stoltz, Gilles (Eds.), Lecture Notes in Statistics, Vol. 203.
106. P. Chigansky and Y. Ritov (2009). A On the Viterbi process with continuous state space. *Bernoulli*, **17**, 609–627.
107. M. Levy and Y. Ritov (2011): Mean-variance efficient portfolios with many assets: 50% short. *Quantitative Finance* **11**, 1461–1471.
108. U. Isserles, Y. Ritov and T. Trigano (2011): Semiparametric curve alignment and shift density estimation for biological data. *IEEE Transactions on Signal Processing* **59**, 1970–1984.
109. Yair Goldberg and Ya'acov Ritov (2012). Theoretical analysis of LLE based on its weighting step. *Journal of Computational and Graphical Statistics*, **21**, 380–393 .
110. Rea Mitelman, Boris Rosin, Hila Zadka, Maya Slovik, Gali Heimer, Ya'acov Ritov, Hagai Bergman, Shlomo Elias (2011). Neighboring pallidal neurons do not exhibit more synchronous oscillations than remote ones in the MPTP primate model of Parkinson's disease, *Frontiers in Systems Neuroscience*.
111. Song Song, Ya'acov Ritov, and Wolfgang Karl Ha'rdle (2012). Bootstrap confidence bands and partial linear quantile regression. SFB 649 Discussion Paper 2010-002, *Journal of Multivariate Analysis*, **107**, 244–262.
112. Mandel, Micha; Ritov, Ya'akov (2010). The Accelerated Failure Time Model Under Biased Sampling *BIOMETRICS*,
113. Ritov, Y. (2013). Introduction to four papers by Peter Bickel. In *Selected Works of Peter J. Bickel*, Editors: Jianqing Fan, Ya'acov Ritov, C. F. Jeff Wu.
114. 121. Noam Cohen, Eitan Greenshtein and Ya'acov Ritov (2013).. Empirical Bayes in the presence of explanatory variables. *Statistica Sinica* **23**, 333–357.
115. Brown, L., Greenshtein, E. and Ritov Y. (2013). The Poisson Compound Decision Problem Revisited. *Journal Of The American Statistical Association* **108**, 741–749.
116. Ritov, Ya'acov (2011). A Random Walk with Drift: Interview with Peter J. Bickel. *STATISTICAL SCIENCE* **26** 150–159.
117. Shenhar-Tsarfaty S, Waiskopf N, Ofek K, Shopin L, Usher S, Berliner S, Shapira I, Bornstein NM, Ritov Y, Soreq H, Ben Assayag E. (2013). Atherosclerosis and arteriosclerosis parameters in stroke patients associate with paraoxonase polymorphism and esterase activities. *Eur J Neurol.*, **20** 891–898.

118. Y. Sepulcre, T. Trigano, Y. Ritov (2013) Sparse regression algorithm for activity estimation in Gamma spectrometry". *IEEE Transactions on Signal Processing*, **61**, 4347–4359 .
119. Ya'acov Ritov and Gershon Saar (2013). Remarks on Bühlmann, Rütimann van de Geer and Zhang: Correlated variables in regression: clustering and sparse estimation. *Journal Of Statistical Planning And Inference*, **143**, 1863-1865.
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