PERSI DIACONIS

Mary V. Sunseri Professor

Professor of Statistics

Professor of Mathematics

(650) 725-1965
diaconis@math.stanford.edu
http://statistics.stanford.edu/persi-diaconis
Sequoia Hall, 390 Jane Stanford Way, Room 131
Sloan Mathematics Center, 450 Jane Stanford Way, Room 106
Stanford, California 94305

Professional Education

College of the City of New York	B.S. Mathematics	1971
Harvard University	M.A. Mathematical Statistics	1972
Harvard University	Ph.D. Mathematical Statistics	1974

Administrative Appointments

2006–2007	*Visiting Professor, Université de Nice-Sophia Antipolis*
1999–2000	*Fellow, Center for Advanced Study in the Behavioral Sciences*
1998–	*Professor of Mathematics, Stanford University*
1998–	*Mary Sunseri Professor of Statistics, Stanford University*
1996–1998	*David Duncan Professor, Department of Mathematics and ORIE, Cornell University*
1987–1997	*George Vasmer Leverett Professor of Mathematics, Harvard University*
1985–1986	*Visiting Professor, Department of Mathematics, Massachusetts Institute of Technology*
1985–1986	*Visiting Professor, Department of Mathematics, Harvard University*
1981–1987	*Professor of Statistics, Stanford University*
1981–1982	*Visiting Professor, Department of Statistics, Harvard University*
1979–1980	*Associate Professor of Statistics, Stanford University*
1978–1979	*Research Staff Member, AT&T Bell Laboratories*
1974–1979	*Assistant Professor of Statistics, Stanford University*

Professional Activities

1972–1980	Statistical Consultant, *Scientific American*
1974–	Statistical Consultant, Bell Telephone Laboratories
1974	Statistical Consultant, Jet Propulsion Laboratories

1977–	Statistical Consultant, SLAC National Accelerator Laboratory (formerly Stanford Linear Accelerator Center)
1993–1999	Statistical Consultant, Teledyne, Cryptography Division
1997–1998	President, Institute of Mathematical Statistics

Editorial Boards: *Advances in Applied Mathematics; SIAM Journal on Discrete Mathematics; J Theoretical Probability; Statistics and Computation; Mathematics and the Internet; Bulletin of the American Math Society; Annals of Probability*

Member: National Academy of Sciences; American Philosophical Society

Fellow: American Academy of Arts and Sciences; American Statistical Association; Institute of Mathematical Statistics

Honors and Awards

1981	*Rollo Davidson Prize, Cambridge University*
1982–1987	*MacArthur Fellowship*
1987	*Wald Lecturer, Institute of Mathematical Statistics*
1989	*Hedrick Lecturer, Mathematical Association of America*
1997	*Gibbs Lecturer, American Mathematical Society*
1998	*Plenary Speaker, International Congress of Mathematicians, Berlin*
2000	*Von Neumann Lecturer, Society of Industrial and Applied Mathematics*
2003	*Honorary Degree, University of Chicago*
2003	*Honorary Degree, Université Paul Sabatier, Toulouse*
2005	*Honorary Degree, Uppsala University, Sweden*
2006	*Van Wijngaarden Award, Centrum voor Wiskund en Informatica, Amsterdam*
2006	*Chaire d'excellence de l'ANR 2006, Université de Nice–Sophia Antipolis, Centre national de la recherche scientifique (CNRS)*
2007	*Honorary Degree, Queen Mary College, University of London*
2009	*Honorary Degree, Athens University of Economics and Business*
2012	*Conant Prize, American Mathematical Society*
2012	*Euler Prize, American Mathematical Society*
2013	*Honorary Degree, University of St. Andrews, Scotland*
2018	*Inaugural Alexanderson Award Lecture, American Institute of Mathematics, Santa Clara University*

Publications

1. **An algorithm for uniform generation of unlabeled (Pólya) trees** FORUM MATH SIGMA Bartholdi L, Diaconis P. 2026; 14: e76. DOI:10.1017/fms.2026.10218
2. **On the number and sizes of double cosets of Sylow subgroups of the symmetric group** J ALG Diaconis, P., Giannelli, E., Guralnick, R.M., Law, S., Navarro, G., Sambale, B., Spink, H. 2026; 689: 62-86. DOI: https://doi.org/10.1016/j.jalgebra.2025.09.036
3. **Counting the number of group orbits by marrying the Burnside process with importance sampling** ADV APPL MATH Diaconis, P., Zhong, C. 2026; 172:102955. DOI: 10.1016/j.aam.2025.102955
4. **Random sampling of contingency tables and partitions: Two practical examples of the Burnside process** STAT COMPUT Diaconis, P., Howes, M. 2025; 35:181. DOI: 10.1007/s11222-025-10708-5
5. **Probabilizing semigroups???** SEMIGROUP FORUM Diaconis, P. 2025; 111:316-330. DOI: 10.1007/s00233-025-10559-6
6. **Poisson approximation for large permutation groups** ADV APPL MATH Diaconis, P., Tung, N. 2025; 167:102883. DOI: 10.1016/j.aam.2025.102883
7. **Enumerative theory for the Tsetlin library** J ALG Chatterjee, S., Diaconis, P., Kim, G.B. 2024; 655: 139-162. DOI: 10.1016/j.jalgebra.2023.08.009
8. ***The Mathematics of Shuffling Cards*** Diaconis, P., Fulman, J. American Mathematical Society 2023. ISBN 978-1-4704-6303-8
9. **Isomorphisms between random graphs** J COMB TH B Chatterjee, S., Diaconis, P. 2023; 160:144-162. DOI: 10.1016/j.jctb.2023.01.001
10. **In Praise (and Search) of J.V. Uspensky** STATIST SCI Diaconis, P., Zabell, S. 2023; 38(1):160-183. DOI: 10.1214/22-STS866
11. **Sequential importance sampling for estimating expectations over the space of perfect matchings** ANN APPL PROBAB Alimohammadi, Y., Diaconis, P., Roghani, M., Amin Saberi, A. 2023; 33(2):999-1033. DOI: 10.1214/22-AAP1834
12. **Double coset Markov chains** FORUM OF MATHEMATICS/SIGMA Diaconis, P., Ram, A., Simper, M. 2023; 11:E2. DOI: 10.1017/fms.2022.106
13. **A random walk on the Rado graph** In *Toeplitz Operators and Random Matrices. Operator Theory: Advances and Applications* (Basor, E., Böttcher, A., Ehrhardt, T., Tracy, C.A., eds) Chatterjee, S., Diaconis, P., Miclo, L. 2022; vol 289 pp 257-299. Birkhäuser. DOI: 10.1007/978-3-031-13851-5_13
14. **Approximate exchangeability and de Finetti priors in 2022** SCAN J STAT Diaconis, P. 2023; 50(1):38-53. DOI: 10.1111/sjos.12609
15. **Gambler's Ruin and the ICM** STATISTICAL SCIENCE Diaconis, P., Ethier, S.N. 2022; 37(3):289-305. DOI: 10.1214/21-STS826
16. **Shuffling cards by spatial motion** STOCHASTIC PROCESSES AND THEIR APPLICATIONS Diaconis, P., Pal, S. 2022; 152:149-176. DOI: 10.1016/j.spa.2022.06.023
17. **Guessing about guessing: Practical strategies for card guessing with feedback** AMER MATH MON Diaconis, P., Graham, R., Spiro, S. 2022; 129(7): 607-622. DOI: 10.1080/00029890.2022.2069986
18. **Statistical enumeration of groups by double cosets** J ALGEBRA Diaconis, P., Simper, M. 2022; 607(Part A): 214-246. DOI: 10.1016/j.jalgebra.2021.05.010
19. **Partial exchangeability for contingency tables** MATHEMATICS Diaconis, P. 2022; 10(3):442. DOI: 10.3390/math10030442
20. **A phase transition for repeated averages** ANN PROBAB Chatterjee, S., Diaconis, P., Sly, A. Zhang, L. 2022; 50(1):1-17. DOI: 10.1214/21-AOP1526

21. **Card guessing with partial feedback** COMBINAT PROBAB COMPUT Diaconis, P., Graham, R., He, X., Spiro, S. 2022; 31(1): 1-20. DOI: 10.1017/S0963548321000134
22. **Randomized sequential importance sampling for estimating the number of perfect matchings in bipartite graphs** ADV APPL MATH Diaconis, P., Kolesnik, B. 2021; 131(Oct): 102247. DOI: 10.1016/j.aam.2021.102247
23. **Complexity and randomness in the Heisenberg groups (and beyond)** NEW ZEALAND J MATH Diaconis, P., Malliaris, M. 2021. 52 (Sep): 403-426. DOI: 10.53733/134
24. **Hahn polynomials and the Burnside process** RAMANUJAN JOURNAL Diaconis, P., Zhong, C.Y. 2021; early access (September). DOI: 10.1007/s11139-021-00482-z
25. **Random walk on unipotent matrix groups** ANNALES SCIENTIFIQUES DE L ECOLE NORMALE SUPERIEURE Diaconis, P., Hough, R. 2021; 54(3): 587-625. DOI: 10.24033/asens.2466
26. **The-square-and-add Markov chain** MATHEMATICAL INTELLIGENCER Diaconis, P., He, J., Isaacs, M. 2021; 43: 27-36. DOI: 10.1007/s00283-021-10058-w
27. **Gambler's ruin estimates on finite inner uniform domains** ANN APPL PROBAB Diaconis, P., Houston-Edwards, K., Saloff-Coste, L. 2021; 31(2): 865-895. DOI: 10.1214/20-AAP1607
28. **Permanental generating functions and sequential importance sampling** ADV APPL MATH (Special Issue: Dedicated to Joseph Kung) Chung, F., Diaconis, P., Graham, R.L. 2021; 126: 101916. Online 29 May 2019. DOI: 10.1016/j.aam.2019.05.004
29. **Analytic-geometric methods for finite Markov chains with applications to quasi-stationarity** ALEA-LAT AMER J PROBAB MATH STAT Diaconis, P., Houston-Edwards, K., Saloff-Coste, L. 2020; 17(2): 901-991. DOI: 10.30757/ALEA.v17-35
30. **Speeding up Markov chains with deterministic jumps** PROBAB THEORY RELAT FIELDS Chatterjee, S., Diaconis, P. 2020; 178: 1193-1214. DOI: 10.1007/s00440-020-01006-4 **Correction to: Speeding up Markov chains with deterministic jumps** PROBAB THEORY RELAT FIELDS 2021. DOI: 10.1007/s00440-021-01049-1
31. **Tensor product Markov chains** J ALGEBRA Benkart, G., Diaconis, P., Liebeck, M.W., Tiep, P.H. 2020; 561: 17-83. DOI: 10.1016/j.jalgebra.2019.10.038
32. **Reproducing kernel orthogonal polynomials on the multinomial distribution** J. APPROX. THEOR. Diaconis, P., Griffiths, R.C. 2019; 242: 1-30. DOI: 10.1016/j.jat.2019.01.007
33. **The magic of Charles Sanders Peirce** In *The Mathematics of Various Entertaining Subjects Volume 3* (J. Beineke, J. Rosenhouse eds), 161-203. Diaconis, P., Graham, R. Princeton University Press, 2019
34. **Probabilizing Fibonacci Numbers** *In Connections in Discrete Mathematics: A Celebration of the Work of Ron Graham* (Butler, S., Cooper, J., Hurlbert, G., eds.), pp. 1-12. Diaconis, P. Cambridge University Press, 2018. DOI: 10.1017/9781316650295.002
35. **The sample size required in importance sampling** ANN. APPL. PROBAB. Chatterjee, S., Diaconis, P. 2018; 28(2): 1099-1135. DOI: 10.1214/17-AAP1326
36. **Bayesian goodness of fit tests: A conversation for David Mumford** ANN. AMER. MATH. SCI APPL. Diaconis, P., Wang, G. 2018; 3(1): 297-308. DOI: 10.4310/amsa.2018.v3.n1.a9
37. **A central limit theorem for a new statistic on permutations** INDIAN J PURE APPL MATH Chatterjee, S., Diaconis, P. 2017; 48(4): 561-573. DOI: 10.1007/s13226-017-0246-3
38. ***Ten Great Ideas about Chance*** Diaconis, P., Skyrms, B. Princeton University Press 2017. ISBN 978-0-691-17416-7
39. **Probabilizing parking functions** ADVANCES IN APPLIED MATHEMATICS Diaconis, P., Hicks, A. 2017; 89: 125-155. DOI: 10.1016/j.aam.2017.05.004
40. **Useful bounds on the extreme eigenvalues and vectors of matrices for Harper's operators** Bump, D., Diaconis, P, Hicks, A., Miclo, L., Widom, H. 2017; in *Large Truncated Toeplitz Matrices, Toeplitz*

Operators, and Related Topics: The Albrecht Böttcher Anniversary Volume Springer International Publishing Vol. 259, 235-265. DOI: 10.1007/978-3-319-49182-0_13

41. **An exercise (?) in Fourier analysis on the Heisenberg group** ANNALES DE LA FACULTÉ DES SCIENCES DE TOULOUSE SÉR. 6 Bump, D., Diaconis, P, Hicks, A., Miclo, L., Widom, H. 2017; 26 (2): 263-288. DOI: 10.5802/afst.1533
42. **Hurwitz and the origins of random matrix theory in mathematics** RANDOM MATRICES: THEORY APPL. Diaconis, P., Forrester, P.J. 2017; 6(1): 1730001 [26 pp]. DOI: 10.1142/S2010326317300017
43. **Universal limit theorems in graph coloring problems with connections to extremal combinatorics** ANNALS OF APPLIED PROBABILITY Bhattacharya, B. B., Diaconis, P., Mukherjee, S. 2017; 27 (1): 337-394
44. **Five stories for Richard** In *The Mathematical Legacy of Richard P. Stanley* (P. Hersh, T. Lam, P. Pylyavskyy, V. Reiner, eds), 131-139. Diaconis, P. Amer. Math. Soc. 2016
45. **The mathematics of the flip and horseshoe shuffles** AMERICAN MATHEMATICAL MONTHLY Butler, S., Diaconis, P., Graham, R. 2016; 123 (6): 542-556
46. **Estimates on the amplitude of the first Dirichlet eigenvector in discrete frameworks** SCIENCE CHINA-MATHEMATICS Diaconis, P., Miclo, L. 2016; 59 (2): 205-226
47. **A spectral analysis approach for experimental designs** In *Excursions in Harmonic Analysis. Vol. 4*: 367-395, Bailey, R.A., Diaconis, P., Rockmore, D.N.. Rowley, C. Birkhäuser/Springer, 2015.
48. **Central limit theorems for some set partition statistics** ADVANCES IN APPLIED MATHEMATICS Chern, B., Diaconis, P., Kane, D. M., Rhoades, R. C. 2015; 70: 92-105
49. **de Finetti Priors using Markov chain Monte Carlo computations** STATISTICS AND COMPUTING Bacallado, S., Diaconis, P., Holmes, S. 2015; 25 (4): 797-808
50. **An introduction to multivariate Krawtchouk polynomials and their applications** J STATISTICAL PLANNING AND INFERENCE Diaconis, P., Griffiths, R. 2014; 154: 39-53
51. **Carries, group theory, and additive combinatorics** AMERICAN MATHEMATICAL MONTHLY Diaconis, P., Shao, X., Soundararajan, K. 2014; 121 (8): 674-688
52. **Unseparated pairs and fixed points in random permutations** ADVANCES IN APPLIED MATHEMATICS Diaconis, P., Evans, S. N., Graham, R. 2014; 61: 102-124
53. **Combinatorics of balanced carries** ADV APPL MATH Diaconis, P., Fulman, J. 2014; 59: 8-25
54. **Convolution powers of complex functions on Z** MATHEMATISCHE NACHRICHTEN Diaconis, P., Saloff-Coste, L. 2014; 287 (10): 1106-1130
55. **Hopf algebras and Markov chains: two examples and a theory** J ALGEBRAIC COMBINATORICS Diaconis, P., Pang, C. Y., Ram, A. 2014; 39 (3): 527-585
56. **Fluctuations of the Bose-Einstein condensate** J PHYSICS A Chatterjee, S., Diaconis, P. 2014; 47 (8
57. **An introduction to multivariate Krawtchouck polynomials and their applications** J STATISTICAL PLANNING AND INFERENCE Diaconis, P., Griffiths, R. 2014
58. **Estimating and understanding exponential random graph models** ANNALS OF STATISTICS Chatterjee, S., Diaconis, P. 2013; 41 (5): 2428-2461
59. **Some things we've learned (about Markov chain Monte Carlo)** BERNOULLI Diaconis, P. 2013; 19 (4): 1294-1305
60. **Analysis of casino shelf shuffling machines** ANNALS OF APPLIED PROBABILITY Diaconis, P., Fulman, J., Holmes, S. 2013; 23 (4): 1692-1720
61. **Random doubly stochastic tridiagonal matrices** RANDOM STRUCTURES & ALGORITHMS Diaconis, P., Wood, P. M. 2013; 42 (4): 403-437
62. **Note on a partition limit theorem for rank and crank** BULLETIN OF THE LONDON MATHEMATICAL SOCIETY Diaconis, P., Janson, S., Rhoades, R. C. 2013; 45: 551-553
63. **Interval graph limits** ANNALS OF COMBINATORICS Diaconis, P., Holmes, S., Janson, S. 2013; 17 (1): 27-52

64. **Sampling from a manifold** *Advances in Modern Statistical Theory and Applications: A Festschrift in honor of Morris L. Eaton* Diaconis, P., Holmes, S., Shahashahani, M. (Jones, G., Shen, X., eds.) Institute of Mathematical Statistics. 2013: 102-125
65. **Closed expressions for averages of set partition statistics** INTERNATIONAL J MODERN MATH Chern, B., Diaconis, P., Chatterjee, S. 2013
66. **Carries, group theory and additive combinatorics** AMER MATH MON Diaconis, P., Shao, X., Soundararajan, K. 2013
67. **Fluctuations of the Bose-Einstein condensate** J PHYSICS A Chatterjee, S., Diaconis, P. 2013; 47 (8)
68. **Foulkes characters, Eulerian idempotents, and an amazing matrix** J ALGEBRAIC COMBINATORICS Diaconis, P., Fulman, J. 2012; 36 (3): 425-440
69. **Gibbs/Metropolis algorithms on a convex polytope** MATHEMATISCHE ZEITSCHRIFT Diaconis, P., Lebeau, G., Michel, L. 2012; 272 (1-2): 109-129
70. **A probabilistic interpretation of the Macdonald polynomials** ANN PROBAB Diaconis, P., Ram, A. 2012; 40 (5): 1861-1896
71. **On Dirichlet eigenvectors for neutral two-dimensional Markov chains** ELECTRONIC J PROBABILITY Champagnat, N., Diaconis, P., Miclo, L. 2012; 17: 1-41
72. **Exchangeable pairs of Bernoulli random variables, Krawtchouck polynomials, and Ehrenfest urns** AUSTRALIAN & NEW ZEALAND J STATISTICS Diaconis, P., Griffiths, R. 2012; 54 (1): 81-101
73. **Supercharacters, symmetric functions in noncommuting variables, and related Hopf algebras** ADVANCES IN MATHEMATICS Aguiar, M., Andre, C., Benedetti, C., Bergeron, N., Chen, Z., Diaconis, P., et al. 2012; 229 (4): 2310-2337
74. **On the spectral analysis of second-order Markov chains** ANNALES DE LA FACULTÉ DES SCIENCES DE TOULOUSE, MATHEMATIQUES Diaconis, P., Miclo, L. 2012; 22: 573-621
75. **Riffle shuffles with biased cuts** *24th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2012)* Assaf, S., Diaconis, P., Soundararajan, K. 2012; 445-456
76. **Random graphs with a given degree sequence** ANN APPL PROBAB Chatterjee, S., Diaconis, P., Sly, A. 2011; 21 (4): 1400-1435
77. **The mathematics of mixing things up** J STATISTICAL PHYSICS Diaconis, P. 2011; 144 (3): 445-458
78. **Geometric analysis for the metropolis algorithm on Lipschitz domains** INVENTIONES MATHEMATICAE Diaconis, P., Lebeau, G., Michel, L. 2011; 185 (2): 239-281
79. **A rule of thumb for riffle shuffling** ANNALS OF APPLIED PROBABILITY Assaf, S., Diaconis, P., Soundararajan, K. 2011; 21 (3): 843-875
80. **On Barycentric subdivision** COMBINATORICS PROBABILITY & COMPUTING Diaconis, P., Miclo, L. 2011; 20 (2): 213-237
81. ***Magical Mathematics: The Mathematical Ideas that Animate Great Magic Tricks*** Diaconis, P., Graham, R. Princeton University Press. 2012 ISBN 978-0-691-15164-9
82. **Stochastic alternating projections** ILLINOIS J MATHEMATICS Diaconis, P., Khare, K., Saloff-Coste, L. 2010; 54 (3): 963-979
83. **On adding a list of numbers (and other one-dependent determinantal processes)** BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY Borodin, A., Diaconis, P., Fulman, J. 2010; 47 (4): 639-670
84. **Functions of random walks on hyperplane arrangements** ADVANCES IN APPLIED MATHEMATICS Athanasiadis, C. A., Diaconis, P. 2010; 45 (3): 410-437
85. **Threads through group theory** *International Conference on the Character Theory of Finite Groups, in Honor of I Martin Isaacs* Diaconis, P. AMER MATHEMATICAL SOC. 2010: 33-47
86. **Geometric analysis for the Metropolis algorithm on Lipschitz domains** INVENTIONES MATHEMATICAE Diaconis, P., Lebeau, G., Michel, L. 2010; 185 (2): 239-281

87. **Properties of uniform doubly stochastic matrices** ANNALS OF APPLIED PROBABILITY Diaconis, P., Chatterjee, S., Sly, A. 2010
88. **Gibbs sampling, conjugate priors and coupling** SANKHYA Diaconis, P., Khare, K., Saloff-Coste, L. 2010; 72-A (1): 136-169
89. **Carries, shuffling, and an amazing matrix** AMERICAN MATHEMATICAL MONTHLY Diaconis, P., Fulman, J. 2009; 116 (9): 788-803
90. **On times to quasi-stationarity for birth and death processes** J THEORETICAL PROBABILITY Diaconis, P., Miclo, L. 2009; 22 (3): 558-586
91. **Carries, shuffling, and symmetric functions** ADVANCES IN APPLIED MATHEMATICS Diaconis, P., Fulman, J. 2009; 43 (2): 176-196
92. **Micro-local analysis for the Metropolis algorithm** MATHEMATISCHE ZEITSCHRIFT Diaconis, P., Lebeau, G. 2009; 262 (2): 411-447
93. **Supercharacter formulas for pattern groups** TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY Diaconis, P., Thiem, N. 2009; 361 (7): 3501-3533
94. **A sequential importance sampling algorithm for generating random graphs with prescribed degrees** J INTERNET MATHEMATICS Diaconis, P., Blitzstein, J. 2009; 6 (4): 489-522
95. **Book Review: *Probabilistic Symmetries and Invariance Principles* by Olav Kallenberg (Probability and its Applications)** BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY Diaconis, P. 2009
96. **Threshold graph limits and random threshold graphs** J INTERNET MATHEMATICS Diaconis, P., Holmes, S., Janson, S. 2009; 5 (3): 267-320
97. **Riffle shuffles of a deck with repeated cards** *21st International Conference on Formal Power Series and Algebraic Combinatorics* Diaconis, P., Assaf, S., Soundararajan, K. 2009: 89-102
98. **Fastest mixing Markov chain on graphs with symmetries** SIAM JOURNAL ON OPTIMIZATION Boyd, S., Diaconis, P., Parrilo, P., Xiao, L. 2009; 20 (2): 792-819
99. **On characterizations of Metropolis type algorithms in continuous time** ALEA-LATIN AMERICAN J PROBABILITY AND MATHEMATICAL STATISTICS Diaconis, P., Miclo, L. 2009; 6: 199-238
100. **The Markov chain Monte Carlo revolution** BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY Diaconis, P. 2009; 46 (2): 179-205
101. **Horseshoes in multidimensional scaling and local kernel methods** ANNALS OF APPLIED STATISTICS Diaconis, P., Goel, S., Holmes, S. 2008; 2 (3): 777-807
102. **On fixed points of permutations** J ALGEBRAIC COMBINATORICS Diaconis, P., Fulman, J., Guralnick, R. 2008; 28 (1): 189-218
103. **Gibbs sampling, exponential families and orthogonal polynomials** STATISTICAL SCIENCE Diaconis, P., Khare, K., Saloff-Coste, L. 2008; 23 (2): 151-178
104. **Supercharacters and superclasses for algebra groups** TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY Diaconis, P., Isaacs, I. M. 2008; 360 (5): 2359-2392
105. **Threshold graph limits and random threshold graphs.** INTERNET MATHEMATICS Diaconis, P., Holmes, S., Janson, S. 2008; 5 (3): 267-320
106. **Comment: Gibbs sampling, exponential families and orthogonal polynomials** STATISTICAL SCIENCE Berti, P., Consonni, G., Pratelli, L., Rigo, P., Diaconis, P. 2008; 23 (2): 179-182
107. **Comment: Gibbs sampling, exponential families and orthogonal polynomials** STATISTICAL SCIENCE Diaconis, P., Jones, G. L., Johnson, A. A. 2008; 23 (2): 183-186
108. **Rejoinder: Gibbs sampling, exponential families and orthogonal polynomials** STATISTICAL SCIENCE Diaconis, P., Khare, K., Saloff-Coste, L. 2008; 23 (2): 196-200
109. **Projection pursuit for discrete data** *Probability and Statistics: Essays in Honor of David A. Freedman* Diaconis, P., Salzman, J. Institute of Mathematical Statistics. 2008: 265-288

110. **Products of universal cycles** *A Lifetime of Puzzles: A Collection of Puzzles in Honor of Martin Gardner* Diaconis, P., Graham, R. L. (Demain, E., Demaine, M., Rodgers, T., eds.) AK Peters, Ltd. 2008: 35-55
111. **Graph limits and exchangeable random graphs** RENDICONTI DI MATEMATICA Diaconis, P., Janson, S. 2008; VII (28): 33-61
112. **Comment** J AMER STATIST ASSOC Diaconis, P., Lehmann, E. 2008; 103 (481): 16
113. **Shuffling cards, adding numbers, and symmetric functions** *19th ACM-SIAM Symposium on Discrete Algorithms* Diaconis, P. SIAM. 2008: 560-560
114. ***Mathematical Statistics*** *Princeton Companion to Mathematics* Diaconis, P. (Gowers, T., ed.) Princeton University Press. 2008:916-920.
115. **Dynamical bias in the coin toss** SIAM REVIEW Diaconis, P., Holmes, S., Montgomery, R. 2007; 49 (2): 211-235
116. **The solutions to Elmsley's problem** MATH HORIZONS Diaconis, P., Graham, R. L. 2007; 14: 22-27
117. **Hit and run as a unifying device** JOURNAL DE LA SOCIÉTÉ FRANÇAISE DE STATISTIQUE Diaconis, P., Graham, R. L. 2007; 148 (4): 5-28
118. **The fastest mixing Markov process on a graph and a connection to a maximum variance unfolding problem** SIAM REVIEW Sun, J., Boyd, S., Xiao, L., Diaconis, P. 2006; 48 (4): 681-699
119. **Separation cut-offs for birth and death chains** ANNALS OF APPLIED PROBABILITY Diaconis, P., Saloff-Coste, L. 2006; 16 (4): 2098-2122
120. **Bayesian analysis for reversible Markov chains** ANNALS OF STATISTICS Diaconis, P., Rolles, S. W. 2006; 34 (3): 1270-1292
121. **Examples comparing importance sampling and the Metropolis algorithm** ILLINOIS J MATHEMATICS Bassetti, F., Diaconis, P. 2006; 50 (1): 67-91
122. **Markov bases for noncommutative Fourier analysis of ranked data** *Workshop on Computational Algebraic Statistics* Diaconis, P., Eriksson, N. Academic Press Ltd/Elsevier Science Ltd. 2006: 182-95
123. **Fastest mixing Markov chain on a path** AMERICAN MATHEMATICAL MONTHLY Boyd, S., Diaconis, P., Sun, J., Xiao, L. 2006; 113 (1): 70-74
124. **Sequential Monte Carlo methods for statistical analysis of tables** J AMER STATIST ASSOC Chen, Y. G., Diaconis, P., Holmes, S. R., Liu, J. S. 2005; 100 (469): 109-120
125. **Analysis of a Bose-Einstein Markov chain** ANNALES DE L INSTITUT HENRI POINCARE-PROBABILITES ET STATISTIQUES Diaconis, P. 2005; 41 (3): 409-418
126. **Exchangeable pairs and Poisson approximation** PROBABILITY SURVEYS Diaconis, P., Chatterjee, S., Meckes, E. 2005; 2 (1): 64-106
127. **Symmetry analysis of reversible Markov chains** J INTERNET MATHEMATICS Diaconis, P., Boyd, S., Parrilo, P., Xiao, L. 2005; 2 (1): 31-71
128. **What is...a random matrix** NOTICES OF THE AMERICAN MATHEMATICAL SOCIETY Diaconis, P. 2005; 52 (11): 1348-1349
129. **Fastest mixing Markov chain on a graph** SIAM REVIEW Boyd, S., Diaconis, P., Xiao, L.2004; 46 (4): 667-689
130. **A super-class walk on upper-triangular matrices** J ALGEBRA Arias-Castro, E., Diaconis, P., Stanley, R. 2004; 278 (2): 739-765
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