

# PERSI DIACONIS

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

## Professional Activities

1972–1980	Statistical Consultant, <i>Scientific American</i>
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. **On the number and sizes of double cosets of Sylow subgroups of the symmetric group** J ALG 2026; 689: 62-86. DOI: <https://doi.org/10.1016/j.jalgebra.2025.09.036>
2. **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
3. **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
4. **Probabilizing semigroups???** SEMIGROUP FORUM Diaconis, P. 2025; 111:316-330. DOI: 10.1007/s00233-025-10559-6
5. **Poisson approximation for large permutation groups** ADV APPL MATH Diaconis, P., Tung, N. 2025; 167:102883. DOI: 10.1016/j.aam.2025.102883
6. **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
7. **The Mathematics of Shuffling Cards** Diaconis, P., Fulman, J. American Mathematical Society 2023. ISBN 978-1-4704-6303-8
8. **Isomorphisms between random graphs** J COMB TH B Chatterjee, S., Diaconis, P. 2023; 160:144-162. DOI: 10.1016/j.jctb.2023.01.001
9. **In Praise (and Search) of J.V. Uspensky** STATIST SCI Diaconis, P., Zabell, S. 2023; 38(1):160-183. DOI: 10.1214/22-STS866
10. **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
11. **Double coset Markov chains** FORUM OF MATHEMATICS/SIGMA Diaconis, P., Ram, A., Simper, M. 2023; 11:E2. DOI: 10.1017/fms.2022.106
12. **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
13. **Approximate exchangeability and de Finetti priors in 2022** SCAN J STAT Diaconis, P. 2023; 50(1):38-53. DOI: 10.1111/sjos.12609
14. **Gambler's Ruin and the ICM** STATISTICAL SCIENCE Diaconis, P., Ethier, S.N. 2022; 37(3):289-305. DOI: 10.1214/21-STS826
15. **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
16. **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
17. **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
18. **Partial exchangeability for contingency tables** MATHEMATICS Diaconis, P. 2022; 10(3):442. DOI: 10.3390/math10030442
19. **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
20. **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

21. **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
22. **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
23. **Hahn polynomials and the Burnside process** RAMANUJAN JOURNAL Diaconis, P., Zhong, C.Y. 2021; early access (September). DOI: 10.1007/s11139-021-00482-z
24. **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
25. **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
26. **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
27. **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
28. **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
29. **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
30. **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
31. **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
32. **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
33. **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
34. **The sample size required in importance sampling** ANN. APPL. PROBAB. Chatterjee, S., Diaconis, P. 2018; 28(2): 1099-1135. DOI: 10.1214/17-AAP1326
35. **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
36. **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
37. **Ten Great Ideas about Chance** Diaconis, P., Skyrms, B. Princeton University Press 2017. ISBN 978-0-691-17416-7
38. **Probabilizing parking functions** ADVANCES IN APPLIED MATHEMATICS Diaconis, P., Hicks, A. 2017; 89: 125-155. DOI: 10.1016/j.aam.2017.05.004
39. **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

40. **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
41. **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
42. **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
43. **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
44. **The mathematics of the flip and horseshoe shuffles** AMERICAN MATHEMATICAL MONTHLY Butler, S., Diaconis, P., Graham, R. 2016; 123 (6): 542-556
45. **Estimates on the amplitude of the first Dirichlet eigenvector in discrete frameworks** SCIENCE CHINA-MATHEMATICS Diaconis, P., Miclo, L. 2016; 59 (2): 205-226
46. **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.
47. **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
48. **de Finetti Priors using Markov chain Monte Carlo computations** STATISTICS AND COMPUTING Bacallado, S., Diaconis, P., Holmes, S. 2015; 25 (4): 797-808
49. **An introduction to multivariate Krawtchouk polynomials and their applications** J STATISTICAL PLANNING AND INFERENCE Diaconis, P., Griffiths, R. 2014; 154: 39-53
50. **Carries, group theory, and additive combinatorics** AMERICAN MATHEMATICAL MONTHLY Diaconis, P., Shao, X., Soundararajan, K. 2014; 121 (8): 674-688
51. **Unseparated pairs and fixed points in random permutations** ADVANCES IN APPLIED MATHEMATICS Diaconis, P., Evans, S. N., Graham, R. 2014; 61: 102-124
52. **Combinatorics of balanced carries** ADV APPL MATH Diaconis, P., Fulman, J. 2014; 59: 8-25
53. **Convolution powers of complex functions on  $\mathbb{Z}$**  MATHEMATISCHE NACHRICHTEN Diaconis, P., Saloff-Coste, L. 2014; 287 (10): 1106-1130
54. **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
55. **Fluctuations of the Bose-Einstein condensate** J PHYSICS A Chatterjee, S., Diaconis, P. 2014; 47 (8)
56. **An introduction to multivariate Krawtchouk polynomials and their applications** J STATISTICAL PLANNING AND INFERENCE Diaconis, P., Griffiths, R. 2014
57. **Estimating and understanding exponential random graph models** ANNALS OF STATISTICS Chatterjee, S., Diaconis, P. 2013; 41 (5): 2428-2461
58. **Some things we've learned (about Markov chain Monte Carlo)** BERNOULLI Diaconis, P. 2013; 19 (4): 1294-1305
59. **Analysis of casino shelf shuffling machines** ANNALS OF APPLIED PROBABILITY Diaconis, P., Fulman, J., Holmes, S. 2013; 23 (4): 1692-1720
60. **Random doubly stochastic tridiagonal matrices** RANDOM STRUCTURES & ALGORITHMS Diaconis, P., Wood, P. M. 2013; 42 (4): 403-437
61. **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
62. **Interval graph limits** ANNALS OF COMBINATORICS Diaconis, P., Holmes, S., Janson, S. 2013; 17 (1): 27-52

63. **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
64. **Closed expressions for averages of set partition statistics** INTERNATIONAL J MODERN MATH Chern, B., Diaconis, P., Chatterjee, S. 2013
65. **Carries, group theory and additive combinatorics** AMER MATH MON Diaconis, P., Shao, X., Soundararajan, K. 2013
66. **Fluctuations of the Bose-Einstein condensate** J PHYSICS A Chatterjee, S., Diaconis, P. 2013; 47 (8)
67. **Foulkes characters, Eulerian idempotents, and an amazing matrix** J ALGEBRAIC COMBINATORICS Diaconis, P., Fulman, J. 2012; 36 (3): 425-440
68. **Gibbs/Metropolis algorithms on a convex polytope** MATHEMATISCHE ZEITSCHRIFT Diaconis, P., Lebeau, G., Michel, L. 2012; 272 (1-2): 109-129
69. **A probabilistic interpretation of the Macdonald polynomials** ANN PROBAB Diaconis, P., Ram, A. 2012; 40 (5): 1861-1896
70. **On Dirichlet eigenvectors for neutral two-dimensional Markov chains** ELECTRONIC J PROBABILITY Champagnat, N., Diaconis, P., Miclo, L. 2012; 17: 1-41
71. **Exchangeable pairs of Bernoulli random variables, Krawtchouk polynomials, and Ehrenfest urns** AUSTRALIAN & NEW ZEALAND J STATISTICS Diaconis, P., Griffiths, R. 2012; 54 (1): 81-101
72. **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
73. **On the spectral analysis of second-order Markov chains** ANNALES DE LA FACULTÉ DES SCIENCES DE TOULOUSE, MATHÉMATIQUES Diaconis, P., Miclo, L. 2012; 22: 573-621
74. **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
75. **Random graphs with a given degree sequence** ANN APPL PROBAB Chatterjee, S., Diaconis, P., Sly, A. 2011; 21 (4): 1400-1435
76. **The mathematics of mixing things up** J STATISTICAL PHYSICS Diaconis, P. 2011; 144 (3): 445-458
77. **Geometric analysis for the metropolis algorithm on Lipschitz domains** INVENTIONES MATHEMATICAE Diaconis, P., Lebeau, G., Michel, L. 2011; 185 (2): 239-281
78. **A rule of thumb for riffle shuffling** ANNALS OF APPLIED PROBABILITY Assaf, S., Diaconis, P., Soundararajan, K. 2011; 21 (3): 843-875
79. **On Barycentric subdivision** COMBINATORICS PROBABILITY & COMPUTING Diaconis, P., Miclo, L. 2011; 20 (2): 213-237
80. **Magical Mathematics: The Mathematical Ideas that Animate Great Magic Tricks** Diaconis, P., Graham, R. Princeton University Press. 2012 ISBN 978-0-691-15164-9
81. **Stochastic alternating projections** ILLINOIS J MATHEMATICS Diaconis, P., Khare, K., Saloff-Coste, L. 2010; 54 (3): 963-979
82. **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
83. **Functions of random walks on hyperplane arrangements** ADVANCES IN APPLIED MATHEMATICS Athanasiadis, C. A., Diaconis, P. 2010; 45 (3): 410-437
84. **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
85. **Geometric analysis for the Metropolis algorithm on Lipschitz domains** INVENTIONES MATHEMATICAE Diaconis, P., Lebeau, G., Michel, L. 2010; 185 (2): 239-281

86. **Properties of uniform doubly stochastic matrices** ANNALS OF APPLIED PROBABILITY Diaconis, P., Chatterjee, S., Sly, A. 2010
87. **Gibbs sampling, conjugate priors and coupling** SANKHYA Diaconis, P., Khare, K., Saloff-Coste, L. 2010; 72-A (1): 136-169
88. **Carries, shuffling, and an amazing matrix** AMERICAN MATHEMATICAL MONTHLY Diaconis, P., Fulman, J. 2009; 116 (9): 788-803
89. **On times to quasi-stationarity for birth and death processes** J THEORETICAL PROBABILITY Diaconis, P., Miclo, L. 2009; 22 (3): 558-586
90. **Carries, shuffling, and symmetric functions** ADVANCES IN APPLIED MATHEMATICS Diaconis, P., Fulman, J. 2009; 43 (2): 176-196
91. **Micro-local analysis for the Metropolis algorithm** MATHEMATISCHE ZEITSCHRIFT Diaconis, P., Lebeau, G. 2009; 262 (2): 411-447
92. **Supercharacter formulas for pattern groups** TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY Diaconis, P., Thiem, N. 2009; 361 (7): 3501-3533
93. **A sequential importance sampling algorithm for generating random graphs with prescribed degrees** J INTERNET MATHEMATICS Diaconis, P., Blitzstein, J. 2009; 6 (4): 489-522
94. **Book Review: *Probabilistic Symmetries and Invariance Principles* by Olav Kallenberg (Probability and its Applications)** BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY Diaconis, P. 2009
95. **Threshold graph limits and random threshold graphs** J INTERNET MATHEMATICS Diaconis, P., Holmes, S., Janson, S. 2009; 5 (3): 267-320
96. **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
97. **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
98. **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
99. **The Markov chain Monte Carlo revolution** BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY Diaconis, P. 2009; 46 (2): 179-205
100. **Horseshoes in multidimensional scaling and local kernel methods** ANNALS OF APPLIED STATISTICS Diaconis, P., Goel, S., Holmes, S. 2008; 2 (3): 777-807
101. **On fixed points of permutations** J ALGEBRAIC COMBINATORICS Diaconis, P., Fulman, J., Guralnick, R. 2008; 28 (1): 189-218
102. **Gibbs sampling, exponential families and orthogonal polynomials** STATISTICAL SCIENCE Diaconis, P., Khare, K., Saloff-Coste, L. 2008; 23 (2): 151-178
103. **Supercharacters and superclasses for algebra groups** TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY Diaconis, P., Isaacs, I. M. 2008; 360 (5): 2359-2392
104. **Threshold graph limits and random threshold graphs.** INTERNET MATHEMATICS Diaconis, P., Holmes, S., Janson, S. 2008; 5 (3): 267-320
105. **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
106. **Comment: Gibbs sampling, exponential families and orthogonal polynomials** STATISTICAL SCIENCE Diaconis, P., Jones, G. L., Johnson, A. A. 2008; 23 (2): 183-186
107. **Rejoinder: Gibbs sampling, exponential families and orthogonal polynomials** STATISTICAL SCIENCE Diaconis, P., Khare, K., Saloff-Coste, L. 2008; 23 (2): 196-200
108. **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

109. **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
110. **Graph limits and exchangeable random graphs** RENDICONTI DI MATEMATICA Diaconis, P., Janson, S. 2008; VII (28): 33-61
111. **Comment** J AMER STATIST ASSOC Diaconis, P., Lehmann, E. 2008; 103 (481): 16
112. **Shuffling cards, adding numbers, and symmetric functions** *19th ACM-SIAM Symposium on Discrete Algorithms* Diaconis, P. SIAM. 2008: 560-560
113. **Mathematical Statistics** *Princeton Companion to Mathematics* Diaconis, P. (Gowers, T., ed.) Princeton University Press. 2008:916-920.
114. **Dynamical bias in the coin toss** SIAM REVIEW Diaconis, P., Holmes, S., Montgomery, R. 2007; 49 (2): 211-235
115. **The solutions to Elmsley's problem** MATH HORIZONS Diaconis, P., Graham, R. L. 2007; 14: 22-27
116. **Hit and run as a unifying device** JOURNAL DE LA SOCIÉTÉ FRANÇAISE DE STATISTIQUE Diaconis, P., Graham, R. L. 2007; 148 (4): 5-28
117. **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
118. **Separation cut-offs for birth and death chains** ANNALS OF APPLIED PROBABILITY Diaconis, P., Saloff-Coste, L. 2006; 16 (4): 2098-2122
119. **Bayesian analysis for reversible Markov chains** ANNALS OF STATISTICS Diaconis, P., Rolles, S. W. 2006; 34 (3): 1270-1292
120. **Examples comparing importance sampling and the Metropolis algorithm** ILLINOIS J MATHEMATICS Bassetti, F., Diaconis, P. 2006; 50 (1): 67-91
121. **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
122. **Fastest mixing Markov chain on a path** AMERICAN MATHEMATICAL MONTHLY Boyd, S., Diaconis, P., Sun, J., Xiao, L. 2006; 113 (1): 70-74
123. **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
124. **Analysis of a Bose-Einstein Markov chain** ANNALES DE L INSTITUT HENRI POINCARÉ-PROBABILITES ET STATISTIQUES Diaconis, P. 2005; 41 (3): 409-418
125. **Exchangeable pairs and Poisson approximation** PROBABILITY SURVEYS Diaconis, P., Chatterjee, S., Meckes, E. 2005; 2 (1): 64-106
126. **Symmetry analysis of reversible Markov chains** J INTERNET MATHEMATICS Diaconis, P., Boyd, S., Parrilo, P., Xiao, L. 2005; 2 (1): 31-71
127. **What is...a random matrix** NOTICES OF THE AMERICAN MATHEMATICAL SOCIETY Diaconis, P. 2005; 52 (11): 1348-1349
128. **Fastest mixing Markov chain on a graph** SIAM REVIEW Boyd, S., Diaconis, P., Xiao, L. 2004; 46 (4): 667-689
129. **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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<i>ALI REJALI</i> <i>Probability Theory and Additive Number Theoretic Functions</i>	<i>STANFORD</i>
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<i>ARIF ZAMAN</i> <i>Finite forms of de Finetti's theorem for Markov chains</i>	<i>STANFORD</i>
<i>HANI DOSS</i> <i>Bayesian Nonparametric Estimation of Location</i>	<i>STANFORD</i>
<i>DOUGLAS CRITCHLOW</i> <i>The Metric Method for Partially Ranked Data</i>	<i>HARVARD</i>
<i>PETER MATTHEWS</i> <i>The Waiting Time to Cover a Group in Random Walk</i>	<i>STANFORD</i>
<i>RICHARD DEVEAUX</i> <i>The Mixture of Normal Regression Problems</i>	<i>STANFORD</i>
<i>ALEX MCMILLAN</i> <i>Robustness of the James-Stein estimator</i>	<i>STANFORD</i>
<i>ANDREW GREENHALGH</i> <i>Probability Measures; with Subgroup Invariance Properties</i>	<i>STANFORD</i>
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<i>ROBIN PEMANTLE</i> <i>Random Walk; with Reinforcement</i>	<i>MIT</i>
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<i>JEFFREY ROSENTHAL</i> <i>Rates of Convergence for Gibbs Sampler and Other Markov Chains</i>	<i>HARVARD</i>
<i>CARL DOU</i>	<i>MIT</i>

*Studies of Random Walks on Groups and Random Graphs*

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