

Vita
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Degrees:

B.S. Massachusetts Institute of Technology, 1965
Ph.D. Harvard University (advisor A. Gleason), 1970

Member of A.M.S., M.A.A., and S.I.A.M.
Putnam Competition Winner 1962
M.A.A. Olympiad Committee 1975-78
N.A.S. Exchange Fellow, Budapest 1976-77
Sloane Foundation Fellow, 1977-81
Editor: *Combinatorica*, 1979-present
Putnam Competition Committee, 1980
Weizmann Institute (Israel) visitor, 1980
University of Reading (U.K.) visitor, 1981
IREX Exchange Fellow, Budapest, 1984
Ford Award, 1984
Budapest Semesters in Math Advisory Board, 1984-present
Associate Editor: *American Math Monthly*, 1986-1991
Ford Prize Committee, 1986-89
NSF-CBMS Lecturer, Durango, 1986
M.I.T. visitor, 1987, 1990, 2001
Microsoft visitor, 2003
Editor: *SIAM J. of Discrete Math*, 1987-1995
Brain Bogglers (as Maxwell Carver), *Discover*, 1987-89

Editor: Discrete Mathematics, 1988-1996
ARIDAM lecturer, 1988
Polya Prize Committee, 1990
Vice Chair, SIAM Disc Math Group, 1991-1993
Editor, The Annals of Applied Probability, 1990-1994
St. Flour (France) Probability School, Lecturer 1991
Cofounder: Random Structures and Algorithms, 1990-??
Institute for Mathematics and Its Applications, visitor 1993
AMS Program Committee for National Meetings 1994-5, chair 1995
Invited Speaker, International Congress of Mathematicians, Zürich, 1994
Nachdiplom Lectures, ETH (Zurich), Summer 1995
Institute for Advanced Study, visitor 1997, 1998
Chair, SIAM Disc Math Group, 1997-1999
Erdos Memorial Lectures, Hebrew University 2001

Publications of Joel H. Spencer

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2. Maximal consistent families of triples, *Journal of Combinatorial Theory* 5, 1-8 (1968).
3. A characterization of clique graphs, *Journal of Combinatorial Theory Series B*, 10, 102-108 (1971) (with Fred S. Roberts).
4. Minimal completely separating systems, *Journal of Combinatorial Theory*, 8, 446-447 (1970).
5. Minimization of ± 1 matrices under line shifts, *Colloquium Mathematicum (Poland)* 23, 165-171 (1971) (with Tom Brown).
6. Optimal ranking of tournaments, *Networks* 1, 135-138 (1972).
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8. A constructive solution to a tournament problem, *Canadian Math Bulletin* 14, 45-47 (1971) (with R.L. Graham).
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11. A remark on coloring integers, *Canadian Math. Bulletin* 14, 45-47 (1971).
12. On small graphs with forced monochromatic triagles, in *Lecture Notes in Mathematics*, vol. 186, *Recent Trends in Graph Theory*, Springer Verlag 1971, 137-141 (with R.L. Graham).
13. Turan's Theorem for k-graphs, *Discrete Mathematics* 2, 183-186 (1972).
14. Minimal scrambling sets of simple orders, *Acta Math. Hung.* 22, 349-353 (1971).
15. Probabilistic methods in combinatorial math (book) (with P. Erdős) (1974) Academic Press/Akademia Kiado, Publishers.

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17. Families of k -independent sets, Discrete Mathematics (with D. Kleitman) 6 (1973) 255-262.
18. Editor, The Art of Counting (book) 1973 (M.I.T. Press).
19. Random regular tournaments, Period Math. Hung., 5 (2) (1974) 105-120.
20. On a conjecture of Erdős and Hajnal, Math. Lapok, 22, (1973) 1-2 (in Hungarian).
21. Puncture sets, J. Comb. Theory, (A), 17 (1974) 329-336.
22. A deception game, Amer. Math. Monthly 80 (1973) 416-417.
23. Maximal asymmetry of graphs, Acta Math. Hung., 27 (1976) 47-53.
24. Euclidean Ramsey Theorems I, J. Comb. Theory A. 14 (1973) 241-363 (with P. Erdős, R.L. Graham, P. Montgomery, B.L. Rothschild, E.G. Straus).
25. Euclidean Ramsey Theorems II, Infinite and Finite Sets, Keszthely (Hungary) 1973, 529-557 (with P. Erdős, et. al.).
26. Euclidean Ramsey Theorems III. Infinite and Finite Sets, Keszthely (Hungary) 1973, 529-557 (with P. Erdős et.al.).
27. A generalized Rota conjecture for partitions, Studies in Applied Math., 53 (1974) 239-242.
28. Ramsey Theorems for multiple copies of graphs, Trans. Amer. Math. Soc. 209 (1975) 87-99 (with P. Erdős, S. Burr).
29. Ramsey's Theorem - A new lower bound, J. Comb. Th. Ser. A 18 (1975) 108-115.
30. Nonconstructive methods in discrete mathematics (in Studies in Combinatorics, MAA 1978, G.C. Rota ed.), pp. 142-178.
31. Restricted Ramsey configurations, J. Comb. Th., Ser. A., 19 (1975) 278-286.
32. Factoring the complete graph into factors with large star number, J. Comb. Th. Ser. B. 18 (1975) 180-183 (with P. Erdős, N. Sauer, J. Schaer).

33. Optimal doubling in backgammon, *Operations Research* 23 (1975) 1063-1071 (with E.B. Keeler).
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35. Asymptotic Lower Bounds for Ramsey Functions, *Discrete Math* 20 (1977), 69-76.
36. Edge Disjoint Placements of Graphs, *J. Comb. Theory B* 25 (1978), 295-302.
37. Balancing Families of Sets, *J. Comb. Theory A* 25 (1978), 29-37 (with J.E. Olson).
38. On Extremal Density Theorems for Linear Forms (in *Number Theory and Algebra*, Academic Press, 1977), 103-107 (with R.L. Graham and H.S. Witsenhausen).
39. Balancing Games, *J. Comb. Theory B* 23 (1977), 68-74.
40. An Elementary Proof of a Theorem of Kronecker, *The Fibonacci Quarterly* 15 (1977), 9-10.
41. Optimally Ranking Unrankable Tournaments, *Periodica Math Hung* 11 (1980), 131-144.
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43. Strong Independence of Graph Copy Functions (in *Graph Theory and Related Topics*, Academic Press, 1978; J.A. Bondy, U.S.R. Murty, eds.) pp. 165-172 (with P. Erdős and L. Lovász).
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45. A General Ramsey Product Theorem, *Proc. Amer. Math. Soc.* 73 (1979), 137-139 (with R.L. Graham).
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63. Balancing Matrices with Line Shifts, *Combinatorica* 3 (1983) 299-304 (with Jozsef Beck).
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113. When does the Zero-One Law hold?, *J. Amer. Math. Soc.* 4, (1991) 451-468 (with T. Luczak)
114. Coloring Random and Semi-Random k -Colorable Graphs, *J. of Algorithms* 19. (1995) 204-234 (with A. Blum)

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121. Random Sparse Unary Predicates, *Random Structures & Algorithms* 5 (1994), 375-394 (with S. Shelah)
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127. From Erdős to Algorithms, *Discrete Math.* 136 (1994), 295-304
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