

CURRICULUM VITAE

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Education

B.S.	The Citadel	1965	First Honor Graduate
M.A.	University of Alabama	1967	NASA Fellowship 1965-68
Ph. D.	University of Alabama	1969	

Experience

Academic and Research Positions

Assistant Professor, The Citadel, 1969–72.
Assistant Professor, University of South Carolina, 1973–75.
Associate Professor, University of South Carolina, 1975–80.
Professor, University of South Carolina, 1980–86.
Carolina Research Professor, University of South Carolina, 1986–87.
Professor - Arizona State University, 1987–1992.
Director, Combinatorics and Optimization Research Group,
Bell Communications Research, 1991–1994.
Regents' Professor, Arizona State University, 1992–2002.
Professor, Georgia Institute of Technology, 2002–present.

Administrative Positions

Assistant Dean, College of Science and Mathematics,
University of South Carolina, 1976–79.
Chair, Department of Mathematics, Computer Science and Statistics,
University of South Carolina, 1979–80.
Chair, Department of Mathematics and Statistics,
University of South Carolina, 1980–85.
Chair, Department of Mathematics, Arizona State University, 1987–91,
January 1995–June 1997.
Associate Chair and Graduate Director, Arizona State University, January–June 2000.
Vice Provost for Academic Affairs, Arizona State University, July 2000–July 2002.
Chair, School of Mathematics, Georgia Institute of Technology, August 2002–June 2009.

Experience (Continued)

Visiting Positions

- Lecturer, Stillman College, 1969.
- Visiting Assistant Professor, Dartmouth College, 1972–73.
- Visiting Scholar, M.I.T., Fall 1981.
- Visiting Professor, Charles University, Prague, Czech Republic, 1982.
- Visiting Professor, Universite de Paris (Sud), France, 1982, 1985.
- Visiting Professor, Rutgers University, 1987.
- Guest Professor, Freie Universität, Berlin, 1997–98.

Grant support

National Science Foundation

- An Experimental Program to Stimulate Competitive Research in Discrete Mathematics, 1980–85, \$245,077.
- Research in Combinatorial Mathematics, 1982–84 (with J. R. Griggs), \$52,500.
- Mathematical Sciences Research Equipment, 1983–85 (with G. W. Johnson), \$112,000.
- Research in Combinatorics, 1984–87 (with J. R. Griggs), \$126,000.
- Mathematical Sciences: Research in Combinatorics, 1987–89, \$63,250.
- Mathematical Sciences: Research in Combinatorics, 1989–92, \$167,050.
- Correlation and Sorting, 2000–05, \$132,900.

DOD

- Exploring and Controlling Spatio Temporal Chaos and Complex Structures through Visualization: A Mini Supercomputer Approach, 1988–90 (with B. Nicolaenko, et al.), \$185,067.
- Discrete Mathematics: A Computationally Intensive Approach, 1995–98, \$243,867.

Professional Activity

- Member of AMS/NSF Committee on Postdoctoral Awards, 1984–90; 2012–13
Chair, 1985–86.
- Member of NSF Review Panel on Enhanced Doctoral Training, 2015.
- Member of NSF Review Panel for Visiting Professorship for Women Program,
1987–90.
- Member of NSF Review Panel for Research Experiences for Undergraduates Program,
1987–90.
- Member of NSF Grant Review Panel for Combinatorics, 2004, 2005, 2008, 2011.
- Member of NSA Grant Review Panel, 1986–88, 1999–01.
- Chair, JPBM Department Chairs Committee, 1989–91.
- Editor-in-Chief, *Order*, 1998–2006.
- Member of Editorial Board for *Order*, *Discrete Mathematics*, *Journal of Graph Theory*,
Journal of Combinatorics and SIAM book series on *Applications of Discrete Mathematics*.
- Member of Editorial Board for *SIAM Journal on Discrete Mathematics* 1986–95,
Managing Editor 1986–91.
- Member of Editorial Board for *Algebra Universalis*, 1998–2004.
- Co-organizer of 1991/92 DIMACS Special Year on Graph Theory and Algorithms.
- Organizer of 1991 DIMACS Workshop on Planar Graphs.
- Member of Program Committee for International Symposium in
Theoretical Computer Science, Sao Paulo, Brazil, April 1992.
- Member of Organizing Committee for 5th and 7th SIAM Conferences on
Discrete Mathematics, Vancouver, June 1992 and Baltimore, 1996.
- Chair of Organizing Committee for 6th SIAM Conference on
Discrete Mathematics, Albuquerque NM, June 1994.
- Consulting Director, DIMACS, 1993–94.
- Chair, SIAM Activity Group on Discrete Mathematics, 1993–96.
- Organizer of IMA Summer Workshop for Graduate Students on
Combinatorics, and Applications, Atlanta GA, 2003.
- Organizer of Minisymposium on Ordered Sets, SIAM Conference on Discrete Mathematics,
Nashville TN, June 2004.
- Co-organizer of 2007 DIMACS Workshop on Puzzling Mathematics
and Mathematical Puzzles, Rutgers University, 2007.
- Member of Review Committee for the Department of Mathematical Sciences,
Iowa State University, 2007.
- Chair of Review Committee for the Department of Mathematical Sciences,
University of Memphis, 2008.
- Chair, AMS Committee on Professional Ethics, 2010.
- Organizer of Minisymposium on Combinatorics and Partially Ordered Sets,
SIAM Conference on Discrete Mathematics, Austin TX, June 2010.
- Organizer of Minisymposium on Combinatorics and Partially Ordered Sets,
SIAM Conference on Discrete Mathematics, Halifax, Nova Scotia (Canada) June 2012.
- Organizer of Workshop on Combinatorics and Posets, Jagiellonian University
Krakow (Poland) September 2012.
- Chair, President's Advisory Board for the Department of Mathematical Sciences,
Carnegie Mellon University, 2013.
- Member of Review Committee for the Department of Mathematical Sciences,
University of Memphis, 2015.
- Member of Review Committee for the Department of Mathematics,
University of Mississippi, 2016.
- Member of Review Committee for the Faculty of Mathematics,
The Technion, Haifa, Israel, 2016.

Colloquium and Seminar Lectures

Dartmouth College	1973	University of Puerto Rico	1990
M. I. T.	1973	Dartmouth College	1990
Furman University	1975	Union College	1990
Limestone College	1975	Georgia Tech	1990
College of Charleston	1975	Tech. Univ. Berlin (Germany)	1991
South Carolina State University	1975	Haverford College	1991
Western Carolina University	1976	University of Michigan	1992
Bowling Green University	1977	University of Connecticut	1992
M. I. T.	1979	Texas A&M University	1992
Stanford University	1979	Rutgers University	1993
Pennsylvania State University	1980	Emory University	1993
Westfield College (England)	1980	Johns Hopkins University	1993
Nottingham University (England)	1980	Freie Universität Berlin (Germany)	1997
Tech. Hoch. Darmstadt (Germany)	1980	Academy of Sciences (Russia)	1997
Clemson University	1980	TU-Hamburg (Germany)	1998
M. I. T.	1981	TU-Warsaw (Poland)	1998
Northeastern University	1981	TU-Posnan (Poland)	1998
A. T. & T. Bell Laboratories	1981	TU-Chemnitz (Germany)	1998
Princeton University	1981	Institute of Systems Science (China)	1998
Rutgers University	1981	Shangdong University (China)	1998
University of Waterloo	1981	Suzhou University (China)	1998
C. U. N. Y.	1981	Inner Mongolia N. Univ. (China)	1998
The Citadel	1981	Universität Rostock (Germany)	1998
College of Charleston	1981	TU-Münich (Germany)	1998
A. T. & T. Bell Laboratories	1981	The Citadel	2000
Université de Paris VI (France)	1983	University of South Carolina	2000
Université de Paris Sud (France)	1983	Northwestern Polytechnic Univ. (China)	2001
I.M.A.G. Grenoble (France)	1983	Lanzhou University (China)	2001
Claude Bernard University (France)	1983	University of California, San Diego	2002
Charles University (Czechoslovakia)	1983	Universite Libre Bruxelles (Belgium)	2002
Rutgers University	1984	University of Illinois, Urbana Champaign	2003
Clemson University	1984	Georgia State University	2003
Fordham University	1984	Dartmouth College	2003
Courant Institute	1984	Arizona State University	2003
Johns Hopkins University	1985	Emory University	2003
Université de Paris Sud (France)	1985	Technische Universität Berlin	2009
Tech. Hoch. Darmstadt (Germany)	1985	Courant Institute	2009
M. I. T.	1985	Emory University	2009
Louisville University	1985	Technische Universität Berlin	2010
University of Puerto Rico	1985	University of Illinois	2010
University of Winnipeg	1985	National Central University (Taiwan)	2011
Carnegie - Mellon University	1986	University of Puerto Rico	2012
Rutgers University	1987	Emory University	2013
C. U. N. Y.	1987	Massachusetts Institute of Technology	2013
University of Arizona	1987	University of Waterloo	2014
U. C. S. B.	1988	University of Minnesota	2014
University of Puerto Rico	1988	Technische Universität Berlin	2016
Clemson University	1988	Jagieollonian University, Krakow	2016
Rutgers University	1989	Technische Universität Berlin	2017
Simon Fraser University	1989	Freie Universität Berlin	2017
University of Victoria	1989		

Invited Talks at National and International Conferences

- 2nd, 3rd, 5th and 6th International Conferences on Graph Theory,
Western Michigan University, 1976, 1980, 1988, 1992.
- Problemes combinatoires et theorie des graphes, Universite de Paris (France), 1976.
- Kombinatorik Geordneter Mengen, Oberwolfach (Germany), 1979.
- Conference Combinatoire, Marseille (France), 1981.
- Symposium on Ordered Sets, Banff (Canada), 1981.
- Sixth Hungarian Combinatorics Conference, Eger (Hungary), 1981.
- Third Czechoslovakian Symposium on Graph Theory, Prague (Czechoslovakia), 1982.
- Ordered Sets and their Applications, Lyon (France), 1982.
- Cambridge Combinatorics Conference, Cambridge (England), 1983.
- Graphs and Ordered Sets, Banff (Canada), 1984.
- NSF Sponsored U.S.–Hungarian Combinatorics Workshop, Budapest (Hungary), 1984.
- Combinatorics of Ordered Sets, Oberwolfach (Germany), 1985.
- Dirac Conference, Sonderborg (Denmark), 1985.
- Third International Conference on Combinatorial Mathematics, New York NY, 1985.
- Colloquium on Ordered Sets, Szeged (Hungary), 1985.
- Third International Conference on Graphs and Combinatorics, Marseilles (France), 1986.
- Colloquium on Irregularities of Partitions, Fertod (Hungary), 1986.
- NSF Sponsored U.S.–Hungary Workshop on Combinatorics, U. of Illinois, Chicago IL, 1987.
- Colloquium on Combinatorics and Graph Theory, Eger (Hungary), 1987.
- Cambridge Combinatorics Conference, Cambridge (England). 1988.
- Combinatorics and Ordered Sets, Oberwolfach (Germany), 1988.
- Combinatorics, Oberwolfach (Germany), 1989.
- Second China/USA International Conference on Graph Theory, San Francisco CA, 1989.
- Advanced Research Institute in Discrete Applied Mathematics IV, Rutgers University,
Piscataway NJ, 1989.
- Julius Petersen Graph Theory Conference, Middlefart (Denmark), 1990.
- Quo Vadis Graph Theory Conference, Fairbanks AK, 1990.
- 10th Bielefeld Colloquium on Combinatorics, Bielefeld (Germany), 1990.
- Workshop on Structural Combinatorics, Bielefeld (Germany), 1990.
- DIMACS Workshop on On-Line Algorithms, Rutgers University, Piscataway NJ 1991.
- Conference on Extremal Set Theory, Visegrad (Hungary), 1991.
- Combinatorics and Ordered Sets, Oberwolfach (Germany), 1991.
- Workshop on Irregularities of Partitions, Bielefeld (Germany), 1991.
- DIMACS Workshop on Random Structures and Algorithms, Rutgers University, Piscataway NJ, 1991.
- Advanced Research Institute in Discrete Applied Mathematics VI, Rutgers University
Piscataway NJ, 1989.
- Mathematics of Paul Erdős, Prague (Czechoslovakia), 1992.
- Trends in Discrete Mathematics, Bielefeld (Germany), 1992.
- Kombinatorik, Oberwolfach (Germany), 1992.
- Cambridge Combinatorics Conference, Cambridge (England), 1993.
- Hungarian Combinatorics Conference, Keszthely (Hungary), 1993.
- Random Graphs 1993, Posnan (Poland), 1993.
- Seventh International Conference on Random Structures and Algorithms, Atlanta GA, 1995.
- Fifteenth British Combinatorial Conference, Stirling (Scotland), 1995.
- Ordered Sets and Algorithms, Ottawa (Canada), 1996.
- Selected Topics in Discrete Mathematics, Warsaw (Poland), 1996.
- Workshop on Algebra and Combinatorics, MSRI, Berkeley CA, 1996.
- Dimatia Conference, Prague (Czech Republic), 1997.

Invited Talks at National and International Conferences (Continued)

- British Combinatorial Conference, London (England), 1997.
Combinatorics Colloquium, Braunschweig (Germany), 1997.
NSF Combinatorics Conference, Nanjing (China), 1998.
Diskrete Mathematik 98, Berlin (Germany), 1998.
Dimatia 98, Prague (Czech Republic), 1998.
Ordinal and Symbolic Data Analysis, Amherst MA, 1998.
Twelfth Cumberland Conference, Louisville KY, 1999.
Paul Erdős and his Mathematics, Budapest (Hungary), 1999.
DIMACS Research and Education Institute, Rutgers University, Piscataway NJ, 1999.
Kleitman and Combinatorics, M.I.T., Cambridge MA, 1999.
Third International Conference on Orders, Algorithms and Applications, Montpelier (France), 1999.
Combinatorics, Oberwolfach (Germany), 2000.
Combinatexas, Texas A&M University, College Station TX, 2000.
Ordinal and Symbolic Data Analysis, Brussels (Belgium) 2000.
Formal Power Series and Algebraic Combinatorics, Scottsdale AZ, 2001.
Horizons in Combinatorics, Vanderbilt TN, 2001.
Chinese Academy of Sciences Conference on Graph Theory and Combinatorics, Kunming (China), 2001.
NSF-CBMS Conference on Geometric Graph Theory, Denton TX, 2002.
Combinatorics, Berlin (Germany), 2002.
16th Cumberland Conference on Combinatorics, Graph Theory and Computing, Atlanta GA, 2003
18th Clemson Mini-Conference on Optimization, Clemson SC, 2003
35th Southeastern International Conference on Combinatorics, Graph Theory and Computing,
Boca Raton FL, 2004
Graph Theory with Altitude, Denver CO, 2005.
6th Czech-Slovak International Symposium, Prague, Czech Republic, 2006.
EXCILL: Extremal Combinatorics at Illinois, Urbana-Champaign IL, 2006.
Extremal Combinatorics Workshop, Budapest, Hungary, 2007.
Graph Theory, Computational Geometry and Thought, Jerusalem, Tiberius and Haifa, (Israel), 2008.
Szemerédi 70, Budapest (Hungary), 2010.
3rd Polish Combinatorial Conference, Posnan (Poland), 2010.
24th Cumberland Conference on Combinatorics, Graph Theory and Computing, Louisville KY, 2011.
6th Cross Straits Conference on Graph Theory and Combinatorics, Taipei (Taiwan), 2011.
Graph Theory @ Georgia Tech, Atlanta GA, 2012.
EXCILL II: Extremal Combinatorics at Illinois, Urbana-Champaign IL, 2013.
Atlanta Lecture Series IX, Atlanta GA, 2013.
Erdős Centennial, Budapest (Hungary), 2013
Workshop and Summer School on Order and Geometry, Berlin (Germany), 2013
Erdős 101, Memphis TN, 2014
46th Southeastern Conference on Graph Theory, Combinatorics and Computing,
Boca Raton FL, 2014
West Fest, Minneapolis MN, 2014
Connections in Discrete Mathematics, a conference honoring Ronald L. Graham
on the occasion of his 80th birthday, Vancouver, B.C., 2015.
4th-annual Mississippi Discrete Mathematics Workshop, Oxford MS, 2015 (plenary speaker).
Worshop on Order and Geometry, Gultlowy (Poland), 2016.
6th Polish Combinatorial Conference, Będlewo (Poland), 2016 (plenary speaker).

Invited talks at Meetings of Professional Societies

AMS	Special Session on Combinatorics, Annual Meeting	Dallas TX	1973
AMS	Special Session on Graph Theory, Annual Meeting	Atlanta GA	1974
SIAM	Regional Meeting	Columbia SC	1976
MAA	Regional Meeting - Hour speaker	Charleston SC	1983
CBMS	Conference on Extremal Graph Theory, Hour speaker	Atlanta GA	1984
AMS	Special Session on Geometry, Summer Meeting	Eugene OR	1985
NYAS	Annual Meeting, Hour speaker	New York NY	1985
AMS	Combinatorics and Ordered Sets, Hour speaker	Arcata CA	1985
SIAM	Third SIAM Conference on Discrete Mathematics	Clemson SC	1986
CBMS	Conference on Probabilistic Methods	Durango CO	1986
AMS	Special Sessions on Combinatorics, Regional Meeting	Denton TX	1986
SIAM	Minisymposium on Interval Graphs, Annual Meeting	Denver CO	1987
AMS	Special Session on Combinatorics, Regional Meeting	Honolulu HA	1987
AMS	Algorithmic Combinatorics, Hour speaker	Boulder CO	1987
AMS	Special Session on Combinatorics, Annual Meeting	Atlanta GA	1988
AMS	Special Session on Graph Theory, Regional Meeting	Manhattan KA	1989
SIAM	Minisymposium on Ordered Sets and Scheduling	Atlanta GA	1990
NYAS	Annual Meeting, Hour Speaker	New York NY	1992
AMS	Special Session on Posets, Regional Meeting	Tuscaloosa AL	1992
AMS	Special Session on Combinatorics, Regional Meeting	DeKalb IL	1993
AMS	Special Session on Graph Theory, Annual Meeting	San Francisco CA	1995
SIAM	Minisymposium on Partially Ordered Sets	Baltimore MD	1996
AMS	Plenary Lecture, Annual Meeting	San Diego CA	1997
AMS	Special Session on Geometry and Combinatorics	Oaxaca, Mexico	1997
AMS	Special Session on Combinatorics, Regional Meeting	Urbana IL	1999
SIAM	Minisymposium on Posets, Annual Meeting	Atlanta GA	1999
SIAM	Minisymposium on Information Technology, Annual Meeting	Washington DC	2000
MAA	Plenary Lecture, Regional Meeting	Phoenix AZ	2000
SIAM	SIAM Conference on Discrete Mathematics	Minneapolis MN	2000
AMS	Special Session on Discrete Geometry	Columbia SC	2001
AMS	Special Session on Graph Theory, Annual Meeting	San Diego CA	2002
SIAM	Minisymposium on Ordered Sets	Nashville TN	2004
SIAM	Minisymposium on Discrete Geometry	Nashville TN	2004
AMS	Special Session on Graph Theory, Regional Meeting	Urbana IL	2009
SIAM	Minisymposium on Posets, Annual Meeting	Denver CO	2009
SIAM	Special Session on Graph Theory, Annual Meeting	San Francisco CA	2010
AMS	Special Session on Applied Combinatorics, Regional Meeting	Columbus GA	2011
AMS	Special Session on Graph Theory, Regional Meeting	Wake Forest NC	2011
AMS	Special Session on Graph Theory, Annual Meeting	Boston MA	2012
AMS	Special Session on Posets, Regional Meeting	Louisville KY	2013
SIAM	SIAM Conference on Discrete Mathematics	Minneapolis MN	2014
AMS	Special Session on Graph Theory, Regional Meeting	Memphis TN	2015

Invited Lecture Series

Advanced Research Institute in Discrete Applied Mathematics V,
8 lectures on Algorithms and Applied Graph Theory, Rutgers University, 1990.
Fourteenth Mathematical Sciences Lecture Series,
10 lectures on Partially Ordered Sets, Johns Hopkins University, 1990.
The 16th Annual Shanks Lecture, Vanderbilt University, 2001.
Three week Doc-course on Geometric Graphs and Orders,
Technische Universität Berlin, June 15–July 3, 2009.
“Partially Ordered Sets: Problems and Methods”, Jagiellonian University, Krakow (Poland)
May 17–June 10, 2011.
Clanton Visiting Mathematician, Furman University, March 28, 2017.

Graduate Student Supervision

Sheila Cribb	M.M.	1974
John Moore	Ph.D.	1976
Laurie Hopkins	Ph.D.	1981
Sheng Peng Lo	Ph.D.	1981
Ted Monroe	Ph.D.	1982
Tim Szeliga	M.S.	1983
David Jaspers	M.S.	1984
Bing Zhou	Ph.D.	1986
Chiang Lin	Ph.D.	1987
Haiyong Deng	M.N.S.	1990
Kent Cantwell	Ph.D.	1992
Csaba Biro	Ph.D.	2008
Mitch Keller	Ph.D.	2010
David Howard	Ph.D.	2010
Noah Streib	Ph.D.	2012
Ruidong Wang	Ph.D.	2015

Undergraduate Student Supervision (NSF Sponsored REU)

Benjamin Armbruster	2001
Kelly Lyons	2004
Emily Kennedy	2005
Orin Jaworski	2005
Bill March	2005

Undergraduate Senior Thesis Supervision

Paige Hoffman	2009–10
Gabriel Hoffman	2009–10
Lianghao Chen	2013–14
Robert Grosse	2013–14

William T. Trotter

List of Publications

Updated: May 7, 2018

Books

- [1] *Combinatorics and Partially Ordered Sets: Dimension Theory*, The Johns Hopkins University Press, Baltimore, MD, 1992.
- [2] *Planar Graphs*, DIMACS Series in Discrete Mathematics and Theoretical Computer Science, American Mathematical Society, Providence, RI, 1993.
- [3] *Applied Combinatorics*, available on-line at <http://people.math.gatech.edu/~trotter>, revision date: February 15, 2015 (with M. T. Keller).

Articles

- [1] Characterization of the finite partition property for a collection of universal subcontinua, *Proc. Amer. Math. Soc.* **25** (1970), 760–762.
- [2] A decomposition theorem for collections of universal subcontinua, *Colloq. Math.* **23** (1971), 233–239.
- [3] Maximal dimensional partially ordered sets II, *Discrete Math.* **5** (1973), 33–44 (with K. P. Bogart).
- [4] Dimension of the crown \mathbf{S}_n^k , *Discrete Math.* **8** (1974), 85–103.
- [5] Inequalities in dimension theory for posets, *Proc. Amer. Math. Soc.* **47** (1975), 311–316.
- [6] Irreducible posets with arbitrarily large height exist, *J. Comb. Theory (A)* **17** (1974), 337–344.
- [7] Embedding finite posets in cubes, *Discrete Math.* **12** (1975), 165–172.
- [8] A note on Dilworth’s embedding theorem, *Proc. Amer. Math. Soc.* **52** (1975), 33–39.
- [9] A bound on the dimension of interval orders, *J. Comb. Theory (A)* **21** (1976), 319–238 (with K. P. Bogart and I. Rabinovitch).
- [10] A forbidden subposet characterization of an order dimension inequality, *Math. Systems Theory* **10** (1976), 91–96.
- [11] A generalization of Hiraguchi’s inequality for posets, *J. Comb. Theory (A)* **20** (1976), 114–123.
- [12] The dimension of planar posets, *J. Comb. Theory (B)* **21** (1977), 51–67 (with J. I. Moore).
- [13] Some theorems on graphs and posets, *Discrete Math.* **15** (1976), 79–84 (with J. I. Moore).
- [14] Characterization problems for graphs, partially ordered sets, lattices, and families of sets, *Discrete Math.* **16** (1976), 361–381 (with J. I. Moore).
- [15] Maximal dimensional partially ordered sets III: A characterization of Hiraguchi’s inequality for interval dimension, *Discrete Math.* **15** (1976), 389–400 (with K. P. Bogart).
- [16] On the complexity of posets, *Discrete Math.* **16** (1976), 71–82 (with K. P. Bogart).
- [17] The dimension of a comparability graph, *Proc. Amer. Math. Soc.* **60** (1976), 35–38 (with J. I. Moore and D. P. Sumner).

- [18] Order preserving embeddings of aographs, in *Theory and Applications of Graphs*, Springer-Verlag, **642** (1978), 572–579.
- [19] Combinatorial problems in dimension theory for partially ordered Sets, in *Problemes Combinatoires et Theorie des Graphes*, Colloque Internationaux C.N.R.S. **260** (1978), 403–406.
- [20] Some combinatorial problems for permutations, *Congressus Numerantium* **19** (1978), 619–632.
- [21] When the cartesian product of directed cycles is hamiltonian, *J. Graph Theory* **2** (1979), 137–142 (with P. Erdős).
- [22] On double and multiple interval graphs, *J. Graph Theory* **3** (1979), 205–211 (with F. Harary).
- [23] A forbidden subgraph characterization of Roberts’ inequality for boxicity, *Discrete Math.* **28** (1979), 303–313.
- [24] Large minimal realizers of a partial order II, *Discrete Math.* **31** (1980), 297–314 (with S. Maurer and I. Rabinovitch).
- [25] A generalization of Turán’s theorem to directed graphs, *Discrete Math.* **32** (1980), 167–189 (with S. Maurer and I. Rabinovitch).
- [26] Partially ordered sets with equal rank and dimension, *Congressus Numerantium* **29** (1980), 627–637 (with S. Maurer and I. Rabinovitch).
- [27] A bound on the interval number of a complete multipartite graph, in *The Theory and Applications of Graphs*, G. Chartrand et al., eds., Wiley Interscience (1981), 397–407 (with L. Hopkins).
- [28] Stacks and splits of partially ordered sets, *Discrete Math.* **35** (1981), 220–256.
- [29] An extremal problem in recursive combinatorics, *Congressus Numerantium* **33** (1981), 143–153 (with H. Kierstead).
- [30] Combinatorial problems for graphs and matrices, *Discrete Math.* **39** (1982), 87–101 (with T. Monroe).
- [31] Dimension theory for ordered sets, in *Proceedings of the Symposium on Ordered Sets*, I. Rival et al., eds., Reidel Publishing (1982), 171–212 (with D. Kelly).
- [32] Every t -irreducible partial order is a subposet of a $t + 1$ -irreducible partial order, *Annals of Discrete Math.* **17** (1983), 613–621 (with J. Ross).
- [33] The Ramsey number of a graph with bounded maximum degree, *J. of Comb. Theory (B)* **34** (1983), 239–243 (with V. Chvátal, V. Rödl, and E. Szemerédi).
- [34] On determinism versus non-determinism and related problems, in *Proceedings of the 24th Annual Symposium on Foundations of Computer Science* (1983), 429–438 (with W. Paul, N. Pippenger and E. Szemerédi).
- [35] Graphs and partially ordered sets, in *Selected Topics in Graph Theory II*, R. Wilson and L. Beineke, eds., Academic Press (1983), 237–268.
- [36] Recent progress in problems in discrete geometry, in *Graphs and Other Combinatorial Topics*, Tuebner-Texte Zur Mathematik **59** (1983), 316–319 (with E. Szemerédi).
- [37] A combinatorial distinction between the euclidean and projective planes, *European J. of Comb.* **4** (1983), 385–394 (with E. Szemerédi).
- [38] Extremal problems in discrete geometry, *Combinatorica* **3** (1983), 381–392 (with E. Szemerédi).
- [39] The interval number of a complete multipartite graph, *Discrete Applied Math.* **18** (1984), 163–189 (with L. Hopkins and D. West).

- [40] A sperner theorem on unrelated chains of subsets, *J. Comb. Theory A* **36** (1984), 124–127 (with J. Griggs and J. Stahl).
- [41] Regressions and monotone chains: A ramsey-type extremal problem for partial orders, *Combinatorica* **4** (1984), 117–119 (with D. West, P. Schor and G. W. Peck).
- [42] A theory of dimension for recursive ordered sets, *Order* **1** (1984), 67–82 (with H. Kierstead and G. McNulty).
- [43] Tolerance graphs, *Discrete Applied Math.* **8** (1984), 157–170 (with C. Monma and M. Golumbic).
- [44] Unit distances in the euclidean plane, in *Graph Theory and Combinatorics*, B. Bollobás, ed., Academic Press (1984), 293–303 (with J. Spencer and E. Szemerédi).
- [45] The chromatic number of graphs with locally small chromatic number, *Combinatorica* **4** (1984), 183–185 (with H. Kierstead and E. Szemerédi).
- [46] Triangle-free graphs with restricted bandwidth, in *Progress in Graph Theory*, A. Bondy and R. Murty, eds., Academic Press (1984), 175–190 (with F. R. K. Chung).
- [47] The maximum number of edges in a strongly connected oriented graph without long directed paths, *Congressus Numerantium* **45** (1984), 19–25 (with M. Paoli).
- [48] For $t \geq 3$, every t -dimensional partial order can be embedded in a $t + 1$ -irreducible partial order, in *Finite and Infinite Sets*, A. Hajnal, L. Lovász, and V. T. Sös, eds., Colloq. Math. Soc. J. Bolyai **37** (1984), 711–732 (with J. Ross).
- [49] The dimension of the cartesian product of partial orders, *Discrete Math.* **53** (1985), 255–263.
- [50] Tiling bounded open sets with squares that touch the boundary, in *Discrete Geometry and Convexity*, J. Malkevitch, ed., N.Y. Acad. Sci. (1985), 304–322.
- [51] Graphs and orders in ramsey theory and in dimension theory, in *Graphs and Order*, I. Rival, ed., Reidel (1985), 351–394 (with M. Paoli and J. Walker).
- [52] Angle orders, *Order* **1** (1985), 333–343 (with P. C. Fishburn).
- [53] Inequalities for the greedy dimension of ordered sets, *Order* **2** (1985), 145–164 (with H. Kierstead).
- [54] A generalization of threshold graphs with tolerance, *Congressus Numerantium* **55** (1986) 187–197 (with C. Monma and B. Reed).
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