

# CURRICULUM VITAE

William T. Trotter

## Address

### Office

Chair, School of Mathematics  
Georgia Institute of Technology  
Atlanta, Georgia 30332

### Home

415 Hadley Court  
Atlanta, Georgia 30350

## Communications

### Office

Phone: (404) 894-2747  
E-mail: trotter@math.gatech.edu  
FAX: (404) 894-4409

### Home

Phone: (770) 390-0952

## 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–present.

## **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;  
Chair, 1985–86.
- 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
- Member of NSA Grant Review Panel  
1986–88, 1999–01.
- Chair, JPBM Department Chairs Committee, 1989–91.
- Managing Editor, Order, 1998–present.
- Member of Editorial Board for Discrete Mathematics, Journal of Graph Theory, 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 2003 IMA Summer Workshop for Graduate Students on  
Combinatorics, and Applications, Atlanta GA, 2003
- Organizer of 2004 Minisymposium on Ordered Sets, SIAM Conference on Discrete Mathematics,  
Nashville TN, June 2004.

## Colloquium and Seminar Lectures

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

### Invited Talks at 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 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, Piscatway NJ, 1999.
- Kleitman and Combinatorics, M.I.T., Cambridge MA, 1999.
- Third International Conference on Orders, Algorithms and Applications, Montpellier (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.
- 16<sup>th</sup> Cumberland Conference on Combinatorics, Graph Theory and Computing, Atlanta GA, 2003
- 18<sup>th</sup> Clemson Mini-Conference on Optimization, Clemson SC, 2003
- 35<sup>th</sup> Southeastern International Conference on Combinatorics, Graph Theory and Computing,  
Boca Raton FL, 2004
- Graph Theory with Altitude, Denver CO, 2005.

### 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	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	Tenth SIAM Conference on Discrete Mathematics	Minneapolis MN	2000
AMS	Special Session on Discrete Geomety	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

### **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 16<sup>th</sup> Annual Shanks Lecture, Vanderbilt University, 2001.

### **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.	2006 (anticipated)
Adam Marcus	Ph.D.	2007 (anticipated)
Mitch Keller	Ph.D.	2007 (anticipated)

### **Undergraduate Student Supervision (NSF Sponsored REU)**

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