

# CURRICULUM VITAE

## Fan Chung Graham

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- EDUCATION:** B.S. Mathematics, National Taiwan University, 1970.  
M.S. Mathematics, University of Pennsylvania, 1972.  
Ph.D. Mathematics, University of Pennsylvania, 1974.
- RESEARCH INTERESTS:** Spectral graph theory, extremal graph theory, discrete geometry, algorithmic analysis, network games, Internet computing and networks sciences.
- POSITIONS:** 1998 - present Distinguished Professor of Mathematics,  
Distinguished Professor of Computer Science and Engineering,  
Paul Erdos Professor in Combinatorics (2010 -),  
University of California, San Diego.  
1998 - 2010 Akamai Chair in Internet Mathematics, University of California, San Diego.  
1995 - 1998 Professor of Mathematics, University of Pennsylvania.  
Class of 65 Professor, University of Pennsylvania.  
Professor of Computer Science, University of Pennsylvania.  
1994 - 1995 Member, Institute for Advanced Study.  
1989 fall Visiting Professor,  
Computer Science Department, Princeton University.  
1990 - 1994 Bellcore Fellow.  
1986 - 1990 Division Manager,  
Mathematics, Information Sciences and Operations Research,  
Bell Communications Research, Morristown, NJ.  
1984 - 1986 Research Manager,  
Discrete Mathematics Research Group,  
Bell Communications Research, Morristown, NJ.  
1974 - 1983 Member of Technical Staff,  
Mathematical Foundations of Computing Department,  
Bell Laboratories, Murray Hill, NJ.
- AWARD:** 1990 Allendoerfer Award of Mathematical Association of America.  
1994 Invited address, International Congress of Mathematicians, Zürich,  
1998 Member, American Academy of Arts and Sciences.  
2008 AMS-MAA Joint Invited address, San Diego.  
2009 Noether Lecture, American Mathematics Society, Washington, DC.
- PATENTS:** 1988 Encoding and decoding for code division multiple access  
communication systems.  
1993 Routing of network traffic.

### PROFESSIONAL ACTIVITIES:

- Editor-in-Chief, Internet Mathematics, 2003 to present.  
Co-Editor-in-Chief, Journal of Combinatorics, 2010 to present.  
Co-Editor-in-Chief, Advances in Applied Mathematics, 2000 to 2004.  
Editor-in-Chief, Journal of Graph Theory, 1989-1994, editorial board, 1985 to 1996.  
Co-Editor-in-Chief, Electronic Journal of Combinatorics, 2000 to 2004, editorial Board, 1993 to present.  
Editorial Board, Mathematics Research Letters, 2000 to present.

Editorial Board, *Random Structures and Algorithms*, 1993 to present.  
 Editorial Board, *SIAM Journal on Discrete Mathematics*, 1988 to present.  
 Editorial Board, *Journal of Combinatorial Designs*, 1993 to present.  
 Editorial Board, *SIAM Review*, 1989 to 1998.  
 Editorial Board, *Annals of Applied Mathematics*, 1996 to present.  
 Editorial Board, *Journal of Combinatorial Optimization*, 1996 to present.  
 Editorial Board, *Annals of Combinatorics*, 1999 to present.  
 Editorial Board, *Taiwanese Journal of Mathematics*, 1999 to present.  
 Editorial Board, *Journal of Computer and System Sciences*, 2000 to present.  
 Editorial Board, *Mathematical Systems Theory*, 1989 to 1996.  
 Area editor of *JACM (Journal of the Association of Computing Machinery)*, 1991 to 1995.

- Board of Mathematical Sciences, National Research Council, 1995 to 1999.
- Board of Governors, Institute of Mathematics and Its Applications, 2000 to 2004.
- Putnam Questions Committee, Mathematical Association of America, 1993 to 1995, and as Chair, 1995.
- Member-at-large of Council, AMS (American Mathematical Society), 1989 to 1991.  
 AMS Editorial Board Committee, 1993 to 1996, and as Chair, 1994.  
 AMS Conference Board on Math Sciences, 1989 to 1992.  
 AMS-SIAM-IMS Joint Summer Research Conference Committee, 1991-93, and as Chair, 1993.  
 AMS Committee on Committees, 1995 to 1996.  
 MAA Award Committee, 2004 to present.
- Member of Council, SIAM (Society of Industrial and Applied Mathematics), 1990 to 1992.  
 Chair, SIAM Activity Group in Discrete Mathematics, 1988 to 1991.  
 Organizer/Chair of several SIAM symposia and conferences.  
 SIAM Nominating Committee, 1990 to 1992.  
 Chair, Program committee of SIAM Annual Meeting, 1999.
- DIMACS (NSF Center on Discrete Mathematics and Theoretical Computer Science), member of Executive Committee, 1990 to 1993 and co-chair of Special Year in Graph Theory and Algorithms, 1991-92.
- Steering committee of SODA (Symposium on Discrete Algorithms), 1990 to 1993, Program committees, 3 times.  
 Program committee of STOC (Symposium on the Theory of Computing), 1989, 1990 and as chair, 1998.  
 Program committee, WAW2004, 2006, WINE and WAW 2008, etc.
- New York Academy of Sciences, member of Advisory Board, 1984 to present and Vice-chair, Mathematics Section, 1986 to 1988.
- Principal Lecturer, CBMS Workshop on Spectral Graph Theory, Fresno, Calif., 1994. Principal Lecturer, CBMS Workshop on The Combinatorics of Large Sparse Graphs, San Marcos, Calif., 2004. AMS Invited Address, Orono, Maine, 1991 and Washington, D.C., April, 1993. Principal speaker at the International Graph Theory Conference at Kalamazoo, International Conference on Discrete Mathematics in New York, Southeastern Graph Theory Conference, First China Graph Theory Conference Workshop on Algorithms and Models for the Web-Graph 2004, 2006, Quantum Graphs and Applications 2004, Workshop on Complex Networks 2004, Workshop on Graph Spectra Aveiro 2006, DIMACS workshops on complex networks 2006, FPSAC 2006, etc. Colloquium talks at Harvard, MIT, Stanford, Princeton University, U. of Massachusetts, U. C. Berkeley, U. of Michigan, NYU, etc.

A list of publications (about 230 papers and 3 books) can be found at <http://www.math.ucsd.edu/~fan>