

## People

[People](#) [Academic Programs](#) [Admissions](#) [Research](#) [Seminars](#) [Labs](#) [Student Organizations](#) [Resources](#)

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[Students](#)

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### Research

- Theoretical Computer Science
- Algorithms

### Awards/ Lectureships

- UC Berkeley University Professor, 1994
- ACM Fellow, 1994
- ACM Turing Award, 1985
- Member, National Academy of Sciences
- Member, National Academy of Engineering
- Fellow, American Academy of Arts and Sciences
- Fellow, American Association for the Advancement of Science
- Distinguished Teaching Award, UC Berkeley Academic Senate, 1986
- Class of 1939 Chair, Berkeley
- Lanchester Prize, Operations Research Society of America and Institute for Management Science, 1977
- Fulkerson Prize, American Mathematical Society and Mathematical Programming Society, 1979
- John von Neumann Theory Prize, Operations

- Research Society of America and Institute for Management Science, 1990
- Faculty Research Lecturer, UC Berkeley, 1981-1982
  - Hermann Weyl Lecturer, Institute for Advanced Study, 1979
  - John von Neumann Lecturer, Society for Industrial and Applied Mathematics, 1987
  - Miller Research Professor, UC Berkeley, 1980-1981
  - Honorary Doctorates: Georgetown University, 1992; University of Massachusetts, 1990; Technion, 1989; Univ. of Pennsylvania, 1986
  - Member, National Advisory Board, Computer Professionals for Social Responsibility, 1989-present
  - Member, Board of Governors, Weizmann Institute of Science, 1989-present
  - Member, Board of Trustees, International Computer Science Institute, 1988-present
  - Chair, Computer Science Division, 1973-1975
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## Publications

- Combinatorics, Complexity and Randomness (Turing Award Lecture), Communications ACM, Vol. 29, 1986, pp. 98-111.
- Constructing a Perfect Matching in Random NCS (with E. Upfal and A. Wigderson), Combinatorica, Vol. 6, 1986, pp. 35-48.
- Probabilistic Analysis of Partitioning Algorithms for the Traveling-Salesman Problem in the Plane
- Mathematics of Operations Research, Vol. 2, No. 3, 1977, pp. 209-244.
- Theoretical Improvements in Algorithmic Efficiency for Network Flow Problems (with J. Edmonds), J. ACM, Vol. 18, 1972, pp. 264-284.
- Reducibility among Combinatorial Problems in Complexity of Computer Computations, Plenum Press, 1972.
- The Traveling-Salesman Problem and Minimum Spanning Trees: Part II (with M. Held), Mathematical Programming, Vol. 1, 1971, pp. 6-25.