

DAVID R. KARGER

**Work Address**

MIT Computer Science and Artificial Intelligence Laboratory  
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Cambridge, MA 02138  
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**Interests**

Information management: personal information management, human computer interaction, databases, machine learning, social computing, semantic web

Data Structures and Algorithms; Graph Algorithms; Approximation Algorithms; Probabilistic Analysis. Applications in communication, coding, networking, machine learning, biology, natural language processing.

**Experience**

MASS. INSTITUTE OF TECHNOLOGY Cambridge, MA  
January 1995–present  
Professor.

AKAMAI TECHNOLOGIES Cambridge, MA  
October 1998–April 2001  
Research Scientist.

AT&T BELL LABORATORIES Murray Hill, NJ  
September 1994–January 1995  
Postdoctoral Fellow.

XEROX PALO ALTO RESEARCH CENTER Palo Alto, CA  
1991–1995  
Consultant in Information Retrieval.

STANFORD UNIVERSITY Stanford, CA  
1991–1994  
Teaching assistant in theory of computation, data structures and algorithms, and graduate theory courses. Lectured, prepared assignments and exams, led sections.

**Education**

STANFORD UNIVERSITY Stanford, CA  
1991–1995  
Ph.D. in Computer Science. *Advisor:* Professor Rajeev Motwani

CAMBRIDGE UNIVERSITY Cambridge, England  
1990  
Certificate of Advanced Study in Mathematics.

HARVARD UNIVERSITY Cambridge, MA  
1985–89  
B.A. *summa cum laude* in Computer Science and Physics.

**Dissertation** *Randomized Algorithms for Graph Optimization Problems.* Presents new algorithms for several graph problems. Gives presently best sequential and parallel algorithm for finding minimum cuts in undirected graphs. Presents random sampling approaches to speeding up graph problems such as minimum spanning tree and maximum flow. Gives approximation algorithms for network design problems.

**Honors** ACM SIGOPS Hall of Fame Award, 2015  
ACM SIGCOMM Test of Time Award, 2011  
IEEE Communications and Information Societies' Joint Paper Award, 2009  
ACM Fellow, 2009  
IEEE William Bennet Paper Prize, 2004  
NAS award for Initiatives in Research, 2003  
David and Lucille Packard Foundation Fellowship, 1997–2002  
Alfred P. Sloane Foundation Fellowship, 1997–1999  
Mathematical Programming Society Tucker Prize, 1997  
National Science Foundation CAREER award, 1996-1999  
ACM Doctoral Dissertation Award, 1994  
Hertz Foundation Graduate Fellowship, 1993-94  
National Science Foundation Graduate Fellowship, 1990-93  
Churchill Foundation Fellowship for study at Cambridge University, 1989-90

**Professional Activities** Referee for *Journal of the ACM*, *ACM Transactions on Information Systems*, *Mathematical Programming*, *Journal of Algorithms*, *SIAM Journal on Computing*, *Information Processing Letters*, *Journal of Computer and System Sciences*,

Program Committees: ACM-SIAM Symposium on Discrete Algorithms, 1996; IEEE Symposium on Foundations of Computer Science, 1996 and 1998; International Peer to Peer Systems conference (IPTPS), 2002; ACM Symposium on Theory of Computing, 2005; Conference on Innovative Database Systems Research (CIDR), 2007 and 2009; International Semantic Web Conference (ISWC), 2008–2014; Conference on Intelligent User Interfaces (IUI), 2010; Conference on Information Retrieval (SIGIR), 2008 and 2010; Visual Interface to the Social and Semantic Web, 2009; Conference on Human-Computer Interaction (CHI) 2010 and 2011; ACM User Interface Systems and Technology (UIST) Conference, 2015 and 2016; World Wide Webconference (WWW) 2003, 2009, 2010

Chair: 2009 International Semantic Web Conference (ISWC) 2009

Member SIAM, ACM