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Arthur M. Keller

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Research Interests:

Electronic commerce, databases, fighting spam, voting, entrepreneurship.

Education:

Brooklyn College (City University of New York).
BS, *summa cum laude*, (2/77) with departmental honors in both majors Mathematics and in Computer and Information Science.

Stanford University.
MS (6/79) in Computer Science.
PhD (2/85) in Computer Science.
PhD dissertation topic: Updating Relational Databases Through Views.

Professional Experience:

2013 to 2017	Active Ion Displays, Inc., Redwood City, CA. Co-Founder, Chair of the Board, and Chief Financial Officer.
2011 to present	Psych E Analytics, Inc., Corte Madera, CA. Founder, Board Member, Chief Financial Officer, and Chief Data Scientist.
2003 to present	University of California at Santa Cruz, Computer Science, Information Systems and Technology Management, Technology Management, or Computer Engineering. Lecturer and Research Associate.
2001 to 2003	University of California at Santa Cruz, Department of Computer Science. Visiting Associate Professor.
1999 to present	Minerva Consulting, Palo Alto, CA. Managing Partner and co-Founder. Clients include Propel Software (Technical Advisory Board), Virtual Giveaway.com (Advisor), Serus (Advisor), Broader Minds (Founding Advisor and Board Member), Unspam Technologies (Advisor), GenMobi Technologies (Board Member), Neuron Valley Networks (Advisor), KT Consulting (under contract from NIST, the National Institutes of Standards and Technology), Magnify.net (Advisor), DiagKnowLogy (Advisor), SmartQED (Advisor).

2000 to 2007	Globallinx Network, Inc., Mountain View, CA. Interim CEO, Board Member, angel investor, and co-Founder.
1998 to 2003	Target Mining Corp. (previously buyermail.com and ccRewards.com), Los Altos, CA. Chief Technical Advisor, Board Member, angel investor, and co-Founder.
1987 to 1999	Stanford University, Computer Science Department. Senior Research Scientist (1992 to 1999), Research Scientist (1991 to 1992), Research Associate (1989 to 1991), Visiting Assistant Professor (1987 to 1989).
1991 to 1999	Persistence Software, San Mateo, CA. Chief Technical Advisor (1992 to 1999), member of Board of Directors (1994 to 1997), member of Board of Advisors (1992 to 1994), Technical Advisor (1991 to 1992). (IPO, June 1999.)
1996 to 1998	Epistemics (now called Mergent Systems), Palo Alto, CA. Co-Founder, Chief Financial Officer, Chief Operating Officer, and Board Member. (Acquired by Commerce One, January 2000.)
1989 to 1993	Advanced Decision Systems, Mountain View, CA. Senior Computer Scientist.
1985 to 1989	University of Texas at Austin, Department of Computer Sciences. Assistant Professor (1985 to 1988). Adjunct Assistant Professor (1988 to 1989).
1977 to 1985	Stanford University, Computer Science Department. Research Associate (1985). Research Assistant (1977 to 1985). Acting Assistant Chairman (with rank of Predoctoral Research Affiliate) (1982). Instructor (1979, 1980, 1981).
1981	IBM, San Jose Research Laboratory, San Jose, CA. Academic Associate.
1980	IBM, Thomas J. Watson Research Center, Yorktown Heights, NY. Summer Research Assistant.
1977	Brooklyn College (CUNY), Computer and Information Science Department, Brooklyn, NY. Instructor, "Computers and Society."
1974 to 1977	Brooklyn College (CUNY), Computer Center, Brooklyn, NY. Systems Analyst.

Courses Taught:

Winter 2005	Systems Analysis and Design, University of California at Santa Cruz.
Winter 2004	Systems Analysis and Design, University of California at Santa Cruz.

Spring 2003	Systems Analysis and Design, University of California at Santa Cruz.
Spring 2003	Database Management, University of California at Santa Cruz.
Fall 2002	Relational Database Management (graduate course), University of California at Santa Cruz.
Spring 2002	Relational Database Management (graduate course), University of California at Santa Cruz.
Winter 2002	Database Management, University of California at Santa Cruz.
Fall 2001	Database Management, University of California at Santa Cruz.
January 1998	Infomaster, for Epistemics at PanCanadian Petroleum, Calgary, Alberta, Canada.
Summer 1997	Internet Payment: Technologies and Systems (co-organizing instructor), Western Institute for Computer Science.
Summer 1997	Internet Commerce for Business (co-organizing instructor), Western Institute for Computer Science.
Summer 1997	Internet Security (co-organizing instructor), Western Institute for Computer Science.
Summer 1996	Object Data Management (organizing instructor), Western Institute for Computer Science.
Summer 1996	Electronic Commerce on the Internet (organizing instructor), Western Institute for Computer Science.
Summer 1996	Internet Security (organizing instructor), Western Institute for Computer Science.
Summer 1995	Object Data Management (organizing instructor), Western Institute for Computer Science.
Summer 1995	Internet Security (organizing instructor), Western Institute for Computer Science.
Summer 1994	Object Data Management (organizing instructor), Western Institute for Computer Science.
Spring 1994	Introduction to Databases, Universidad Blas Pascal, Córdoba, Argentina.
Spring 1994	Distributed Databases, Universidad Blas Pascal, Córdoba, Argentina.
Fall 1993	Introduction to Databases, Stanford University.
Summer 1993	Object Data Management Laboratory (organizing instructor), Western Institute for Computer Science.

Summer 1993	Object Data Management (organizing instructor), Western Institute for Computer Science.
Winter 1993	File and Database Systems (Graduate Course), Stanford University, co-taught with Hector Garcia-Molina.
Fall 1992	Introduction to Databases, Stanford University.
Summer 1992	Object Data Management (organizing instructor), Western Institute for Computer Science.
Spring 1992	Distributed Databases (Advanced Graduate Course), Helsinki University of Technology.
Spring 1992	Introduction to Databases, Helsinki University of Technology.
Winter 1992	File and Database Systems (Graduate Course), Stanford University.
Fall 1991	Introduction to Databases, Stanford University.
Summer 1991	Distributed Databases (Advanced Graduate Course), Stanford University.
Summer 1991	Databases in Modern System Architectures (organizer), Western Institute for Computer Science.
Fall 1990	Introduction to Databases, Stanford University.
Fall 1989	Introduction to Databases, Stanford University.
Fall 1988	Introduction to Databases, Stanford University.
Spring 1987	Data Management, Univ. of Texas at Austin.
Fall 1986	Database Management (Graduate Course), Univ. of Texas at Austin.
Spring 1986	Database Interfaces (Advanced Graduate Course), Univ. of Texas at Austin.
Fall 1985	Data Management, Univ. of Texas at Austin.
Summer 1985	An Intensive Introduction to TeX, TeX Users Group.
Summer 1984	An Intensive Introduction to TeX, TeX Users Group.
Winter 1981	Introduction to Computing, Stanford University.
Winter 1980	Introduction to Computing, Stanford University.
Summer 1979	Introduction to Computing, Stanford University.
Spring 1977	Computers and Society, Brooklyn College.

Honors:

Who's Who in America, Millennium Edition (2000); Profesor Extraordinario Visitante, Universidad Blas Pascal, Córdoba, Argentina (1994); Best Student Paper, IEEE Computer Data Engineering Conference (1984); George Forsythe Memorial Award for Excellence in Student Teaching, Stanford University Computer Science Dept. (1981-82); President, Brooklyn College Chapter, Pi Mu Epsilon (1976-77); Top score at Brooklyn College on Putnam Exam (1976); Institutional Member Nominee by Brooklyn College to American Mathematical Society (1976).

Scholarships:

1973 to 1977   New York State Regents Scholarship.

1977 to 1980   National Science Foundation Graduate Fellowship.

Professional Societies:

Association for Computing Machinery, Institute for Electrical and Electronics Engineers (Senior Member) (Vice Chair, IEEE Computer Society Technical Committee on Database Engineering, 1986–1987; Vice Chair 2009–2010, Chair 2010–2013, Immediate Past Chair 2013–present, IEEE Standards Working Group P1622 on Voting Systems Electronic Data Interchange; Member, IEEE Computer Society Standards Activities Board, 2010–2013), TEX Users Group, Sigma Xi, Mathematical Association of America, American Mathematical Society (Institutional Member Nominee), Open Voting Consortium (Vice President and Chief Operating Officer and Chief Financial Officer, 2003–2005; Secretary, 2005–2007), Voting Systems Performance Review (Chair, Executive Committee, 2005–present).

Committee Memberships and Assignments:

Tuition Task Force, Brooklyn College, 1976–77;
Visitors Committee, Computer Science Dept., Stanford Univ., 1977–78;
Student Advisor, Computer Science Dept., Stanford Univ., 1978–85;
Odd Jobs Chairman, Computer Science Dept., Stanford Univ., 1979–80;
Prancing Pony Cooperative (runs a computerized vending machine), Financial Manager, Computer Science Dept., Stanford Univ., 1980–85;
Computer Facilities Committee, Computer Science Dept., Stanford Univ., 1978–79, 1981–83;
Curriculum Committee, Computer Science Dept., Stanford Univ., 1982–83;
Systems Qualifying Exam Committee, Computer Science Dept., Stanford Univ., 1983;
LOTS Computer Facility Liaison, Stanford Univ., 1983–84;
Honor Code Commission, chairman 1984–85, Stanford Univ., 1983–85;
Prospective Student Committee, Computer Science Dept., Stanford Univ., 1983–84;
Finance Committee, TEX Users Group, 1983–85;
Committee of Fifteen, Stanford Univ., 1984–85;
Office Assignments, Computer Science Dept., Stanford Univ., 1982–83, 1984–85;

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