

**A. Michael Berman, Ph.D.**  
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**Profile:**

More than twelve years of management experience in higher education; ten years as the senior campus technology leader at 4 higher education institutions; member of senior education and administrative planning and strategy teams; created successful independent consulting firm; extensive network of professional contacts in higher education and industry; Ph.D. in Computer Science with experience as a professor, consultant, author, and systems developer.

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**Professional Experience**

**California State University, Channel Islands, Camarillo, CA, September 2009 – present**  
**Chief Information Officer.** Senior information technology administrator, member of President’s Cabinet, responsible for academic and administrative technology strategy and management for a new and growing campus.

**AmbermanLtd LLC, Glendale, CA, December 2008 – present**  
**Owner and Principal Consultant.** Consultant to institutions of higher education and other enterprises, providing information technology leadership, research, and strategic analysis. Clients include: Cal State Channel Islands, Cal State Northridge, School of the Art Institute of Chicago, Pasadena City College, University of Wyoming, MobileTribe (mobile software startup), DillonKane Group.

**Art Center College of Design, Pasadena, CA, March 2005 – November 2008**  
**Senior Vice President/Chief Technology Officer.** Built and led a high-performance, focused, agile team that designed and implemented a new hardware and software infrastructure for one the world’s leading colleges of art and design, in support of educational and business objectives. Responsible for technology strategy and policy and leadership for all information technology, a model building and 3D prototyping facility, and the campus library. Managed a budget of more than \$8 million dollars and approximately 80 employees. Worked as a member of the Education Leadership Team to align technology objectives to education objectives and to use technology as a lever for educational reform and improvement. Adjunct Faculty member, Graduate Media Design Program.

Major Accomplishments include:

- Successful leadership of “Art Center Online”, a multi-year initiative to replace and enhance core systems including student services, financial, and HR software; new library systems; and an innovative campus portal.

- Substantial improvements in campus infrastructure including a 30-fold improvement in Internet connectivity and universal wireless access.
- Leadership in corporate and foundation fundraising generating several hundred thousand dollars in new cash and in-kind contributions to support educational technology.
- Liaison to key technology corporations including Hewlett-Packard, Alias/Autodesk, Apple, Lynda.com, Creaform, Desktop Factory and others.
- Developed reputation as an educational leader with a strong network of key connections in higher education and educational technology industry.
- Added new video conferencing and video streaming capabilities.
- Developed initiative to support faculty in the use of instructional technologies.
- Extended and enhanced 3D scanning and rapid prototyping capabilities.
- Created Faculty Technology Studio as a collaborative project between the Library and Educational Technology.
- Cut costs and reduced personnel in technology while enhancing services.

**California State Polytechnic University, Pomona, CA, July 2000 — March 2005**

(Known as Cal Poly Pomona, campus in the California State University (CSU) system.)

***Vice President for Instructional and Information Technology.*** Chief Information Officer for the campus, responsible for strategic planning and coordination of information technology for the University. Report to President and serve as a member of the President's Cabinet. Responsible for one of five campus Divisions, comprising 6 departments, 75 employees, and an annual budget of nearly \$10,000,000. Holder of return rights as a Professor of Computer Science in the College of Science.

Major Accomplishments include:

- Executive Sponsor, campus PeopleSoft implementation—successful four-year, \$10 million plus project to develop a campus ERP including financial, HR, and student administration modules.
- Served as the only Chief Information Officer on the California State University CMS Executive Committee, responsible for oversight of a \$300 million plus ERP implementation.
- First permanent Vice President for IT Division created from the consolidation of several departments—reorganized, reprioritized, and redeveloped the division, resulting in reduced costs, improved service quality, and an improved reputation on campus.
- Built a new and effective management team from the ground up.
- Oversaw an \$8 million refresh of the campus network infrastructure.
- Championed a major, CSU-wide initiative to improve IT service security and coordination—the Secure Identity Management Infrastructure—now in its initial stage of operation.
- Chaired CSU-wide CIO's council.
- Expanded the use of Instructional Technology through increased and improved faculty training and support infrastructure, and advanced the availability of technology for classrooms and faculty in a time of declining campus budgets.
- Developed wireless infrastructure to serve high traffic areas of the campus.

- Developed first systematic approach to campus network security and protection of confidential data.
- Implemented high-quality, low-cost video streaming and video conferencing.
- Key participant in development of 5-year, 5-campus, \$3 million project funded by U.S. Department of Education to improve information security on college campuses.

**Rowan University (Glassboro State College)**, Glassboro, NJ, 1988—2000

**Associate Provost for Information Resources**, December 1997—June 2000. Responsible for managing all four University technology departments, plus the University Library, with a staff of approximately 100.

**Assistant/Associate/Full Professor**, Department of Computer Science, 1988—2000.

**Director**, Office of Instructional Technology, 1997.

**Acting Director**, Academic Computing, 1994—1995.

**Chair**, College Technology Task Force, 1995—1996.

**Siemens Research Lab.**, Princeton, NJ, 1987—1988: **Consulting Computer Scientist**.

**Rutgers University**, New Brunswick, NJ, 1986—1987: **Instructor, Teaching Assistant**.

**Duke University**, Durham, NC, 1985: **Instructor**.

**Rutgers University**, New Brunswick, NJ, 1983: **Research Assistant**.

**Bell Laboratories**, Holmdel, NJ, Summer 1982: **Member of Technical Staff, summer**.

**Rutgers University**, New Brunswick, NJ, 1981—1982: **Instructor**.

**TYMSHARE Inc.**, Newark, NJ, 1980—1981: **Applications Consultant**.

**TALSTAR Computer Systems Inc.**, Princeton Junction, NJ, 1979—1980: **Technical writer**.

**Board of Governors, Federal Reserve System**, Wash. DC, 1978 – 1979: **Research assistant**.

## Consulting and advisory roles

Education Advisory Board, **Lynda.com**, 2009 – present.

Advisory Board, **NMC Horizon Report**, 2009/2010.

Consultant on technology strategy and tactics to higher education institutions, 2004 – Present (references upon request).

**Hewlett-Packard** CME CTO Council, 2005 – 2006.

Higher-Education Advisory Board, **Polyvision-Steelcase**, 2004 – 2005.

Advisory Board, **NMC Horizon Report**, 2004.

CIO Advisory Council, **Blackboard**, 2003 – 2005.

Advisory Board, Design-Based Learning, **Art Center College of Design**, Pasadena, California, 2003 – Present.

Advisory Board, **Hewlett Foundation/Bay Area Science Museum Learning Collaboratory**, 2002 – 2004.

DIMACS Center, **Rutgers University**, New Brunswick, NJ, 1989 – 1991.

**Appel Farm Arts and Music Center**, Elmer, NJ, 1990 – 1992.

**NJ BISEC-TIP**, 1992: NSF-funded project to enhance high school science teaching.

## Education

**Rutgers University**, New Brunswick, New Jersey

*Ph.D., Computer Science, October 1992; M.S., Computer Science, 1983*

Full and part-time graduate student, Department of Computer Science. Studies in 1983 – 1985 supported by Rutgers fellowship.

**Pomona College**, Claremont, California: *B.A., Economics, May 1978*. Two semesters studying in Oxford, England.

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## Books, Articles, and Presentations

### Book

*Data Structures via C++: Objects By Evolution*, 1997 by Oxford University Press USA, New York.

Adopted at approximately 50 colleges and universities in US, plus 4 other continents.

### Dissertation

*Lower and Upper Bounds for Incremental Algorithms*. Ph. D. Dissertation, Rutgers University, New Brunswick, NJ, 1992.

### Presentations and Articles

"How to Talk to a CIO (If You Must)," Panel Discussion leader, EDUCAUSE Western Regional Conference, San Francisco, CA, April 2009.

"Identity Management is Coming to your Campus", preconference seminar, EDUCAUSE Western Regional Conference, San Francisco, CA, April 2009 (w/ Dedra Chamberlin).

"Glimpses of Our IT Future: What's Green, Mobile, and Regulated All Over?," Panel Discussion participant, EDUCAUSE Annual Conference, Orlando, FL, October 2008.

"Student E-Mail: New Options, New Solutions," Panel organizer and moderator, EDUCAUSE Annual Conference, Orlando, FL, October 2008.

"What's This Got To Do With Teaching and Learning?" Panel Discussion participant, ECAR 2008 Summer Symposium, Boulder, CO, June 2008.

"3D Printing: Turning Virtual Models Into Hard Copy," in: St. George, Art, and the 2007 EDUCAUSE Emerging Technologies Committee, "Imagining Tomorrow's Technologies Today," *EDUCAUSE Review* 42(6), November/December 2007.

"Evolving Technologies", Panel Discussion participant, EDUCAUSE Annual Conference, Seattle, WA, October 2007 (w/ Art St. George and others).

"Designing Campus Systems for Real Users," Poster Session, EDUCAUSE Annual Conference, Seattle, WA, October 2007 (w/ Crista Copp).

"Taking the Mystery out of Scripting," Workshop Presentation, NMC Symposium on Creativity in Second Life, August 13 and 17, 2007 (held in Second Life).

"Identity Management Primer," AARNet Ozeconference presentation, May 2007. (via video conference to Australia, New Zealand, Japan, and several other countries.)

"What's Your Gap? Governance and Authentication," Panel Discussion, February 2007, EDUCAUSE CAMP: Charting Your Authentication Roadmap, Tempe, Arizona (w/ several others).

"Introduction to Identity Management: The Big Picture," Preconference Seminar, June 2006, EDUCAUSE CAMP Shibboleth, Burlington, Vermont. (w/ Michael Gettes)

"Merging the Physical and Virtual Through 3D Scanning and Printing," June 2006, NMC Annual Conference, Cleveland, Ohio.

"Seminar: ID Management for the Rest of Us," April 2006, EDUCAUSE Western Regional Conference, San Francisco, CA (w/ Peter Deutsch).

"Seminar: ID Management for the Rest of Us," March 2006, EDUCAUSE Midwest Regional Conference, Chicago, IL (w/ Joel Cooper).

"The Business of Identity Management," March 2006, EDUCAUSE Midwest Regional Conference, Chicago, IL.

"Seminar: ID Management for the Rest of Us," February 2005, EDUCAUSE Southwest Regional Conference, Austin, TX (w/ Joel Cooper).

"IdM Projects: Business Case, Planning and Resources," "Panel: The Overlap of Technology and Policy," and "Putting it All Together: Identity Management on your Campus;" November 2004, EDUCAUSE CAMP ID Management Workshop, San Diego, CA (w/ several others).

"Security and Identity Management: Forging the Link," May 2004, Title V Security Workshop, Ontario, CA.

"What Security Professionals Need to Know About Identity Management," April 2004, SecureIT Conference, San Francisco, CA.

"Partnering to Advance Academic Excellence in K-12 Education Through High-Quality Video Content," March 2004, CENIC Conference, Marina del Rey, CA (w/ Peter Neal, Joan Bissell).

"An Identity Management Vision for California," March 2004, EDUCAUSE Western Regional Conference, Sacramento, CA (w/ Mark Crase).

"Deployment Panel: Planning and Implementing for the Big Day," "Panel: I'll Write a Fix – The Overlap of Technology and Policy," and "Enterprise Directory Services: Project Planning," February 2004, EDUCAUSE Camp ID Management Workshop, Tempe AZ (w/ several others).

"Tutorial: Introduction to Identity Management," one-day preconference tutorial, February 2004, EDUCAUSE Camp ID Management Workshop, Tempe AZ (w/ Keith Hazelton, Jack Suess).

"Academic Implementations: The CIO's Perspective," October 2003, HEUG Annual Conference, Dallas, TX (w/ Jeff Thompson).

"Managing Enterprise Wireless Authentication in a Highly Heterogeneous Environment," May 2003, Wireless Telecommunications Symposium, Pomona CA.

"Panel: Advanced Networking for Minority Serving Institutions," April 2003, SecureIT Conference, Temecula, CA (w/ Alex Ramirez, Phil Lawrence, David Bendtsen).

"The Silver Ring: Inter-Institutional Middleware Collaboration," April 2003, Internet2 Member Meeting, Arlington, VA (w/ Mark Crase).

"Multicampus Middleware: Technical and Organizational Dimensions," October 2002, EDUCAUSE Annual Conference, Atlanta, GA (w/ Mark Crase, Kent McKinney).

"Systemic Progress in Teaching and Learning: Common Elements That Support Campus-Wide Innovation," October 2002, EDUCAUSE Annual Conference, Atlanta, GA (w/ Dorothy Frayer, Christine Haile, Andrea Nixon).

"A CS1 Maze Lab, Using Joysticks and MIPPETs," Proceedings of the Thirtieth SIGCSE Technical Symposium on Computer Science Education, March 1999, pp. 170-173 (w/ Don C. Stone, Seth Bergmann, Ganesh Baliga, and John Schmalzel).

"How to Teach Java in CS1," panel discussion organized and moderated, Consortium for Computing in Small Colleges Northeastern Regional Meeting, Sacred Heart University, Fairfield, CT, April, 1998.

"Possible Futures for CS2," panel participant, Twenty-Ninth SIGCSE Technical Symposium on Computer Science Education, 1998, Atlanta, GA (w/ Daniel McCracken, Ursula Wolz, Owen Astrachan, and Nell Dale).

"Engineering and Computer Science in CS1: Teaching Objects with Real Objects," Proceedings of the Thirteenth Annual Eastern Small College Computing Conference, October 1997, pp. 166-168 (w/ Seth Bergmann, John Schmalzel, and Don Stone).

"Programming Languages in the First Year: C++, Java, and Beyond," Invited Colloquium, DIKU, University of Copenhagen, June 1997 and Rutgers University, August 1997.

"Moving On to Java," birds-of-a-feather session, Twenty-Eighth SIGCSE Technical Symposium on Computer Science Education, 1997, San Jose, CA (with Paul Nagin).

"Using Java in CS Education," panelist, Second Conference on Integrating Technology into Computer Science Education, Uppsala University, Sweden, June 1997.

"Workshop: C++ Standard Template Library," Twenty-Eighth SIGCSE Technical Symposium on Computer Science Education, 1997, San Jose, CA (with Joseph Bergin). (Also presented at the Eastern Small College Computing Conference, Pomona, NJ, Oct. 1997.)

"Using the C++ Standard Template Library in the First Year," invited presentation, NSF Workshop on Using C++ in the First Year, Hamilton College, Clinton, NY, July 1996.

"The C++ Standard Template Library," tutorial seminar, presented at the Twenty-Seventh SIGCSE Technical Symposium on Computer Science Education, 1996, Philadelphia.

"Reducing Errors in DNA Computing by Appropriate Word Design," by Jesse M. Gray, Tony G. Frutos, A. Michael Berman, Anne E. Condon, Max G. Lagally, Lloyd M. Smith, and Robert M. Corn, University of Wisconsin Department of Chemistry, October, 1996.

"Curricular Patterns: On beyond OOP," ACM SIGPLAN Notices 31:4, April 1996.

"Thinking about binary trees in an object-oriented world," *Proceedings of the Twenty-seventh SIGCSE Technical Symposium on Computer Science Education*, March 1996, pp 185-189 (w/ Robert C. Duvall).

"Curricular Patterns: Philadelphia dreaming," ACM SIGPLAN Notices 31:3, March 1996.

"Curricular Patterns: Column constructor," *ACM SIGPLAN Notices* 31:2, February 1996.

"Using C++ in CS1/CS2," panel organized and moderated, Twenty-Fifth SIGCSE Technical Symposium on Computer Science Education, 1994, Phoenix, Arizona.

"Does Scheme Enhance an Introductory Programming Course? Some Preliminary Empirical Results," *ACM SIGPLAN Notices* 29:2, February 1994.

"Can you trust your email?" Eastern Small College Computing Conference, New Rochelle, NY, October 1995 (w/ Kyle Cassidy).

"Class Discussion by Computer: A Case Study," *Proceedings of the Twenty-Third SIGCSE Technical Symposium on Computer Science Education*, March 1992, pp. 97-101.

"Incremental relative lower bounds," with Barbara Ryder and Marvin C. Paull, *Acta Informatica* 27, 665-683, 1990.

"Summary of the X window manager developers' meeting," February 1988, distributed with X Window System Version 11R2.

"Exploring the structure of incremental algorithms," with M.C. Paull and C.C. Cheng, Rutgers University Technical Report DCSTR139, October 1984.

### **Grants Awarded**

2007: Parsons Foundation, Educational Technology, \$300,000.

2006: Ahmanson Foundation, Audio/Video infrastructure improvement, \$100,000.

2001: U. S. Department of Education, *Improving Access to Information Systems at Hispanic-Serving Institutions—A Cooperative Arrangement*, five-year award of \$3 million through Title V to 5 institutions including Cal Poly Pomona.

1998: National Science Foundation, Instrumentation and Laboratory Improvement Grant, Co-Investigator w/ Don C. Stone (PI), Seth Bergmann, John L. Schmalzel, DUE-9850983.

1998: National Science Foundation, Course and Curriculum Development Grant, Co-Investigator w/ Don C. Stone (PI), Seth Bergmann, John L. Schmalzel, DUE-9752626.

1988—1998: approximately \$100,000 in grants from federal, state, and local sources in support of computer science education and campus information technology.

### **Service to the Profession**

Program Committee, EDUCAUSE Annual Conference 2011.

Lead organizer, AICAD Technology Forum, Pasadena, April 2008.

Program Chair, EDUCAUSE Western Regional Conference, San Francisco, 2008.

Evolving Technologies Committee, EDUCAUSE, 2007-2009.

Program Committee, EDUCAUSE Western Regional Conference, San Francisco, 2007.

Invited participant in EDUCAUSE Summit on Identity Management, sponsored by NSF, Washington, DC, November 2006.

Program Committee, EDUCAUSE Camp Shibboleth, Burlington, VT, June 2006.

Awards Committee, EDUCAUSE "Systemic Progress in Teaching and Learning", 2001-2004 (Chair 2004).

Program Committee, Internet2 Member Meeting, 2003-2004.

### **Editorial Positions**

Editor-in-Chief, *ACM SIGPLAN Notices*, 1996 – 2000; Editor, "Curriculum Patterns: OO Techniques in the Classroom," (column), *ACM SIGPLAN Notices*, 1996.

### **Professional Memberships**

IEEE, IEEE Computer Society, EDUCAUSE, NMC.

### **Community Service**

History of service to all levels of education over a 30-year period.

Appel Farm Arts and Music Center, Elmer, NJ, 1991—2000; Trustee, 1992—1996.

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