

David Martin, Ph.D.
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CURRICULUM VITAE

A. SUMMARY

I have been working in the computer software field for over 40 years, in the roles of developer, designer, professor, and expert consultant. I hold a Ph.D. in computer science and a B.S. in mathematics and computer science.

B. EDUCATION AND ACADEMIC QUALIFICATIONS

1. Education

1999 Ph.D. Department of Computer Science, Boston University

1993 B.S. Iowa State University, *summa cum laude*
Major: Mathematics
Major: Computer Science
Minor: German

2. Faculty Experience

2002-2007 Assistant Professor, Department of Computer Science
University of Massachusetts Lowell
(On leave of absence during 2005-2006)

2001-2002 Research Assistant Professor, Department of Computer Science
Boston University

1998-2001 Assistant Professor, Department of Mathematics and Computer Science
University of Denver

3. Courses Taught

Computer Networking	Unix Software Tools	Advanced Unix Programming
Cryptography and Network Security	Introduction to Computer Science I (C++)	Introduction to Object Oriented Programming (C++)
Applied Computer Security	Introduction to Computer Science II (C++)	Foundations of Theoretical Computer Science
Special Topics in Systems: Computer Security	Introduction to Computer Science (C)	Formal Languages and Automata

C. OTHER PROFESSIONAL ACTIVITIES**1. Government Service**

2018-2021 **City Councilor**, Ames, Iowa (population 66,191 as of 2016; home of Iowa State University of Science and Technology). The Council is the elected government of the City.

2. Other Work Experience

2005-2008 **Cofounder**, Boston Software Forensics. Developed software analysis and protective tools for software publishers and OEMs and provided software forensics consulting services.

1997 **E-mail survey programmer and administrator**, Boston University School of Management, Summer

1996 **Student researcher**, Bellcore Inc., Summer
Conducted research in firewall technology, Java security, and cryptography.

1995 **Contract programmer**, BitFlow Inc., Summer
Ported device drivers for a digital camera interface board to Windows NT and Windows 95.

1995 **Database and statistical consultant** for Boston University expert witness, Spring

1987-1993 **System programmer and administrator**, Iowa State University.
Wrote administration and support code for ISU's distributed network of hundreds of Unix systems. Provided programming and system administration support to Computer Science faculty.

1989 **Student intern programmer**, Hewlett-Packard Germany, Spring
Designed and implemented a hypertext help system based on a precursor of Motif for the X Window System under HP Unix while participating in a foreign exchange program.

1986 **Contract programmer**, Lucasfilm Ltd., Fall
Designed and implemented a sound sequencer for a computer game in 6502 assembler; arranged music and sound effects for the soundtrack.

1985-1986 **Lead programmer**, Sensor Scan Inc.
Designed and implemented object-oriented system and application software for a custom microcomputer-based security control device in 6303 assembler.

1984-1985 **Programmer**, Waveform Corp.
Developed software infrastructure for home computer music products in 6502 assembler.

1979-1983 **Part-time programmer**, Cyberia, Inc.
Contributed to development of microcomputer software products in BASIC and 6502 assembler, including peripheral-sharing technologies, farm management software, and games.

3. Representative Testifying Expert Engagements (listed by date of initial engagement by underlined party)

2022 Nintendo Co., Ltd. v. Ancora Technologies, Inc., IPR2021-01338 (PTAB); Roku, Inc. and Vizio, Inc. v. Ancora Technologies, Inc., IPR2021-01406 (PTAB)

2021 e-Numerate Solutions, Inc., and e-Numerate, LLC v. The United States of America (submitted declarations in 2021-22), C.A. No. 19-859-RTH (C. F. C.)

2018 Corus Realty Holdings, Inc. v. Zillow Group, Inc., et al. (submitted expert report; testified at deposition in 2019; W.D. Washington Case No. 2:18-cv-00847-JLR)

2015 ContentGuard Holdings, Inc. v. Amazon.com, Inc., et al. (submitted expert report, testified at deposition and trial in 2015; E.D. Tex. Case 2:13-cv-01112-JRG)

2012 Droplets, Inc. v. Overstock.com, Inc., et al. (submitted expert reports; testified at deposition in 2014; testified at trial in 2015; E.D. Tex. Case 2:11-cv-401)

2010 The Apple iPod iTunes Anti-trust Litigation (engaged by plaintiffs; submitted expert reports, testified at depositions in 2011 and 2013; testified at trial in 2014; N.D. Cal. Case 4:05cv00037)

2009 University of California and Eolas Technologies Inc. v. Adobe Systems Inc. et al. (submitted expert reports, testified at depositions in 2011 and 2012, testified at trial in 2012; E.D. Tex. Case 6:2009cv00446)

2008 Northeastern University and Jarg Corporation v. Google, Inc. (submitted expert report, testified at deposition in 2011; E.D. Tex. 2:2007cv00486)

2007 i4i Limited Partnership v. Microsoft Corporation (submitted expert report, testified at deposition in 2009, testified in trial in 2009; E.D. Tex. Case 6:07cv00113)

2004 Lingo et al. (California Consumer Class) v. Microsoft Corporation (submitted expert report, testified at deposition in 2003)

4. Representative Consulting Expert Engagements (listed by date of initial engagement by underlined party)

2020 Match Group, LLC v. Bumble Trading, Inc., Case No. 6: 18-cv-00080-ADA (W.D. Tex.)

- 2016 Rovi Guides Inc., et al. v. Comcast Corp., et al., No. 2:16-cv-321 (EDTX); Rovi Guides Inc. v. Comcast Corp., et al., No. 2:16-cv-322 (EDTX); Certain Digital Video Receivers and Hardware and Software Components Thereof, Inv. No. 337-TA-1001 (ITC); Comcast Corp., et al. v. Rovi Corp., et al., No. 1:16-cv-03852 (S.D. New York)
- 2015 Zix Corp. v. Echoworx Corp. v. Microsoft Corp., Case No. 2:15-cv-01272-JRG (E.D. Tex.); Case No. 3:2016cv01886 (N.D. Tex.)
- 2012 VirnetX Inc. and Science Applications International Corporation v. Microsoft Corporation, Civil Action No. 6:13-cv-351 (E.D. Tex.)
- 2010 TiVo, Inc. v. EchoStar et al.
- 2009 Prism Technologies LLC v. Research in Motion, Ltd. and Microsoft Corporation
- 2008 Peer Communications, LLC v. Skype Technologies SA et al.
- 2008 Sun Microsystems v. Versata Enterprises

5. Memberships

Association for Computing Machinery
National League of Cities Information Technology and Communications Committee

6. Honors and Awards

- 2007, 2004 Teaching Excellence Award for U. Mass Lowell Computer Science Department
- 1996 Outstanding Teaching Fellow, Department of Computer Science, Boston University
- 1993-1994 University Graduate Fellowship, Boston University
- 1993 Top Graduating Senior in Mathematics, Iowa State University, Spring
- 1993 Top Graduating Senior in Computer Science, Iowa State University, Spring
- 1990 Phi Beta Kappa membership (liberal arts honor society)
- 1990 Phi Kappa Phi membership (engineering honor society)
- 1990 Pi Mu Epsilon (mathematics honor society)
- 1990 Upsilon Pi Epsilon (computer science honor society)
- 1989-1990 Barry M. Goldwater Scholarship (first recipient at Iowa State University)
- 1988-1989 Participated in Congress-Bundestag Youth Exchange to Germany

7. Academic and Professional Publications

Refereed Publications

- 2008 Stanley J. Barr, Samuel J. Cardman, and David M. Martin Jr., *A Boosting Ensemble for the Recognition of Code Sharing in Malware*. Journal of Virology 4:4, 2008.
- 2005 Jesse M. Heines and David M. Martin Jr., *Development and Deployment of a Web-based Course Evaluation System*. In Proceedings of the 2005 International Conference on Web Information Systems and Technologies.
- 2003 D. Martin, H. Wu, A. Alsaïd, *Hidden Surveillance by Web Sites: Web Bugs in Contemporary Use*, Communications of the ACM 46:12ve, December 2003.
- 2002 D. Martin and A. Schulman, *Deanonymizing Users of the SafeWeb Anonymizing Service*. In Proceedings of the 11th USENIX Security Symposium, August 2002.
- 2002 A. Alsaïd and D. Martin, *Detecting Web Bugs With Bugnosis: Privacy Advocacy Through Education*. In Privacy Enhancing Technologies, Springer Lecture Notes in Computer Science volume 2482, 2002.
- 2001 J. Burns, P. Gurung, D. Martin, S. Rajagopalan, P. Rao, D. Rosenbluth, and A.V. Surendran, *Automatic Management of Network Security Policy by Self-securing Networks*, Proceedings of DISCEX II, 2001.
- 2000 D. Martin, R. Smith, M. Brittain, I. Fetch, and H. Wu, *The Privacy Practices of Web Browser Extensions*, Communications of the ACM, February 2001. Extended version available from Privacy Foundation, December 2000.
- 1998 A. Bestavros, M. Crovella, J. Liu, and D. Martin, *Distributed Packet Rewriting and its Application to Scalable Server Architectures*, Proceedings of the 1998 International Conference on Network Protocols, October 1998.
- 1997 D. Martin, S. Rajagopalan, and A. Rubin, *Blocking Java Applets at the Firewall*, Proceedings of the Internet Society Symposium on Network and Distributed System Security, January 1997.
- 1995 R. Book, J. Lutz, and D. Martin, *The Global Power of Additional Queries to Random Oracles*, Information and Computation 120:1, July 1995.

Book Chapters

- 2004 D. Martin, "Privacy Analysis for the Casual User with Bugnosis", in *Designing Security Systems That People Can Use*, O'Reilly and Associates, 2005.

Book Editor

- 2005 Privacy Enhancing Technologies, 4th International Workshop, David Martin and Andrei Serjantov (eds.), Lecture Notes in Computer Science 3424, Springer-Verlag 2005.
- 2006 Privacy Enhancing Technologies, 5th International Workshop, George Danezis and David Martin (eds.), Lecture Notes in Computer Science 3856, Springer-Verlag 2006.

Software Distributions

- 2001 A. Alsaïd, J. Boak, and D. Martin, The Bugnosis Web Bug Detector (Web site and downloadable software), *www.bugnosis.org*, June 2001.

Magazine and Web site articles

- 2001 D. Martin, “TiVo’s Data Collection and Privacy Practices”, *Privacy Foundation*, March 2001.
- 2001 R. Smith and D. Martin, “E-Mail Wiretapping”, *Privacy Foundation*, February 2001.
- 1998 D. Martin, “Internet Anonymizing Techniques”, *login: Magazine*, May 1998.

Technical Reports

- 2007 S. Barr, S. Cardman, and D. Martin, Matching Global Data References in Related Executables. Computer Science Department Technical Report No. 2007-003.
- 1999 D. Martin, *Local Anonymity in the Internet*, Ph.D. thesis, May 1999.