

CURRICULUM VITAE
Dana Eugene Madison

November 2012

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PRESENT POSITION:

Professor, Mathematics Department, Clarion University of Pennsylvania, 2004 - present

PREVIOUS CLARION UNIVERSITY POSITIONS:

Professor, Computer Information Science Department, Clarion University of Pennsylvania, Clarion PA 16214, 2002 - 2004

Chairperson and Associate Professor, Computer Information Science Department, Clarion University of Pennsylvania, Clarion PA 16214, 1996 – 2002

Associate Professor, Computer Information Science Department, Clarion University of Pennsylvania, Clarion PA 16214, 1993 – 1996

OTHER TEACHING POSITIONS:

University of Alaska Fairbanks, Fairbanks, AK, summers 2006 - 2012

Adjunct Professor, University of Maryland University Campus, graduate program in Software Engineering, Sept 2012 - present

Grove City College, Grove City, PA, fall 2006, fall 2008

University of Texas at San Antonio, 1988-1992

Baylor University, 1988-1990

Naval Postgraduate School, Monterey, CA, 1988

Monterey Peninsula College, Monterey, CA, 1986-1988

Harford Community College, Harford, MD, 1983-1985

University of Maryland, Heidelberg, Germany, 1980-1982

City Colleges of Chicago, Heidelberg, Germany, 1980-1982

San Antonio College, San Antonio, TX, 1976-1977

EDUCATION:

- 1988 Ph.D.
 Computer Science
 Naval Postgraduate School
- 1975 M.A.
 Mathematics
 State University of New York, College at Brockport
- 1972 B.S.
 Mathematics
 State University of New York, College at Brockport

PROFESSIONAL CERTIFICATIONS:

- Mar 2000, CompTIA A+
- May 2000, Microsoft Windows 98
- May 2000, Microsoft Certified Professional
- Aug 2000, Microsoft Networking Essentials
- Sep 2000, Microsoft Certified Trainer
- Apr 2001, CompTIA Network+

PROFESSIONAL POSITIONS:

- 1988 – 1992 Information Management Officer, U.S. Army Medical Department Center and School, Fort Sam Houston, Texas 78234. Military rank – Lieutenant Colonel.
- 1988 – 1992 Adjunct Assistant Professor, Department of Mathematics, Computer Science, and Statistics, University of Texas at San Antonio.
- 1988 – 1990 Assistant Professor, U.S. Army – Baylor University Graduate Program in Health Care Administration, Academy of Health Sciences, U.S. Army.
- 1986 – 1988 Instructor, Department of Data Processing, Monterey Peninsula College, Monterey, California.
- 1983 – 1985 Automation Management Officer, U.S. Army Environmental Hygiene Agency, Aberdeen Proving Ground, Maryland.
- 1979 – 1982 Plans and Management Officer, 7th Medical Command, Heidelberg, Germany.
- 1978 – 1979 Assistant Vice-President, M.I.S., Inc., Bradford Pennsylvania.
- 1977 – 1978 Plans and Management Officer, U.S. Army Garrison, Fort Detrick, Maryland.

1975 – 1977 ADP Officer, Health Care Systems Support Activity, Fort Sam Houston, Texas.

1972 – 1974 Computer Programmer, 3rd Army/FORSCOM Data Processing Installation, Fort McPherson, Georgia.

CONTRIBUTIONS TO THE UNIVERSITY

Director, Clarion University Soccer Camp, summers 1994, 1995.

Faculty Advisor, CUP Ski Club, (1994 to 2003)

Search Committee, Director of Computing Services 1995

Member, CUP Committee on Integrating Internet into Public Schools.

Member, Subcommittee on Computer Operations, 1997-8.

Member, Subcommittee on Technology, 2000-2003

Member, Subcommittee on Student Activities, 2004 - 2007

CONTRIBUTIONS TO THE COMMUNITY

Steering Committee Member, Clarion County Habitat for Humanity, (1995-6)

Assisted with coaching in Knox Girls Softball League, 1993, 1994, 1995.

Free Computer Consulting services to several Knox area small businesses (ongoing)

Board Member, Clarion County YMCA. (1994-95)

Director, Clarion County YMCA Soccer Program, Fall 1994.

Sunday School Board Member, St. Paul's Lutheran Church, Knox. (1994-6)

Jr. High Sunday School Teacher, St. Paul's Lutheran Church, Knox. (1996)

Board of School Directors, Keystone School District, Knox, PA, 1997 - 2005

OTHER COMPUTER-RELATED EXPERIENCE

Designed and developed a microcomputer-based diagnosis coding and Diagnosis Related

Group grouper for a hospital group comprised of five medium-sized hospitals.

Computer consultant for James L. Rutkowski, D.M.D., 1994 – present

Computer consultant for Midwest Implant Institute, 2000 - present

Computer consultant for Dr. Jeff Green, a chiropractor in Knox, PA, 1997 – 2004

Computer consultant for Clarion County Financial Director, 1998 - 1999

Computer consultant for Commodore Homes, Clarion, PA, 1999 – 2000
Computer consultant for Jefferson County Area Agency on Aging, Brookville, PA, 1999
Computer consultant for Karta Technologies, Inc., San Antonio, TX, 2001
Computer consultant for CORDEV, Inc., San Antonio, TX, 2001
Computer consultant for Clarion County Career Center, 2001
Mentor, The Electronic Emissary Project, University of Texas, 2001
Computer consultant for Keystone SMILES, 1998-2001

RECENT CONFERENCES AND WORKSHOPS ATTENDED

Mar 2000, Technology in Education Conference
Apr 2000, National School Board Conference
Oct 2000, Eastern Small College Computing Conference
Nov 2000, Webnet 2000
Nov 2000, ISECON 2000
Oct 2001, Eastern Small College Computing Conference
Nov 2001, ISECON 2001
Apr 2002, National School Board Conference
Jun 2002, National Computational Science Institute
Apr 2003, Northeast Consortium on Computing in Small Colleges
Oct 2003, National School Board Technology Conference
Mar 2004, Mathematical Association of America Regional Meeting
Apr 2004, Northeast Consortium on Computing in Small Colleges
Jun 2004, National Computational Science Institute
Mar 2005, Mathematical Association of America Regional Meeting
Jun 2005, Computational Biology
Nov 2005, Oberlin College Conference on Computation and Modeling

PROFESSIONAL AFFILIATIONS AND RECOGNITION

Who's Who Among America's Teachers (nominated four times in three different years)

Who's Who in the Computing Industry

Member - Consortium for Computing in Small Colleges

Past Member – Association of Computing Machinery

Past Member - Association for the Advancement of Computing in Education

Past Member - ACM Special Interest Group in Computer Science Education

Past Member - ACM Special Interest Group in Computer Uses in Education

Past Member - North American Association of Technology Professionals

Past Member - Association of Information Technology Professionals (AITP)

Past Member - AITP Special Interest Group on Education

Past Member – IEEE Computer Society

Past Member – National Council of Teachers of Mathematics

Past Member – Mathematical Association of America

Past Member – Institute of Electrical and Electronics Engineers

Past Member – American Association for Artificial Intelligence

Past Member – Computer & Automated Systems Association, Society of Mechanical
Engineers

Past Member – American Society of Mechanical Engineers

Past Member – Society of Manufacturing Engineers

Permanent Teaching Certificates – New York Secondary Mathematics

California Junior College Computer Science

California Junior College Mathematics

PUBLICATIONS

- “A Research Report on the Laboratory for Database Systems Research: Past, Present, and Future”, *Japanese Computer Society*, 1986.
- “An Expert System Interface and Data Requirements for the Integrated Product Design and Manufacturing Process”, *Third International Conference on Data Engineering*, 1987.
- “The ‘Integration’ in Computer Integrated Manufacturing”, *International Conference on Engineering Design*, 1987.
- “Data-Driven CIM”, *Computers in Mechanical Engineering*, 1988, 2-part series.
- “A Data-Oriented Approach to Computer Integrated Manufacturing: Process Planning using Group Technology”, *International Conference on CAD/CAM Automation, Robotics, and Factories of the Future*, 1988.
- “Artificial Intelligence in Emergency Room Triage”, *Journal of Ambulatory Care Management*.
- “Knowledge Engineering using Neural Networks”, *International Symposium on Artificial Intelligence*, Monterrey, Mexico, Oct 89.
- “Rapid Prototyping in Medical Applications”, *Computers in Health Care*, Nov 89.
- “Acuity-based Bed Management”, *Computers in Nursing*.
- “A Dynamic Lab Approach to Reinforcing Computing Concepts”, Eastern Small College Computer Conference, Shepard College, West Virginia, October 2001
- “Reinforcing Networking Concepts – A Modular Approach”, Information Systems Educators Conference (ISECON) 2001, Cincinnati, Ohio, November 2001
- “Data Communications Concepts: Layer by Layer”, Information Systems Educators Conference (ISECON) 2001, Cincinnati, Ohio, November 2001
- “Inhibition of Alveolar Osteitis in Mandibular Tooth Extraction Sites Using Platelet-Rich Plasma”, *Journal of Oral Implantology*, June 2007 (co-author)
- “Energy Efficient Data Gathering in Mobile Cloud Environment”, Cloud Computing and Virtualization Conference, Singapore, May 2010 (co-author)