

JOHN P. DOUGHERTY

Computer Science, Haverford College
Haverford, Pennsylvania 19041-1392 USA
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EDUCATION

Ph.D. in Computer and Information Sciences, Temple University, 1998
M.S. in Computer Science, Drexel University, 1985
B.A. in Mathematics and in Computer Science (dual), La Salle College, 1982

TEACHING

Haverford College, Haverford, Pennsylvania www.cs.haverford.edu

Assistant Professor of Computer Science, 2001 – ; *Chair of Computer Science*, 2005 – 2008

Visiting Assistant Professor of Computer Science, 1997 – 2001

Visiting Instructor of Computer Science, Spring 1997

- World of Computing (CS0)
- Fluency with Information Technology (CS0)
- Introduction to Computer Science (CS1)
- Data Structures (CS2)
- Computer Graphics
- Operating Systems
- Concurrency and Co-Design
- High-Performance Scientific Computing
- Theory of Computation
- Computer Organization and Architecture
- Senior Thesis/Capstone

Laboratory Coordinator, July 1999 –

- upgraded to (Ubuntu) Linux 8.04 (Summer 2008)
- upgraded to (Ubuntu) Linux 7.04; designed shared scientific computing space (Summer 2007)
- installed (Ubuntu) Linux 5.05 onto dual-core machines from components (Summer 2006)
- configured ProjectBuilder IDE and BlueJ (2003); then Eclipse IDE (2004 – 2006)
- implemented transition from (SuSE) Linux to Macintosh OSX (Summer 2003)
- established parallel Linux cluster (Beowulf) for interdepartmental research and senior projects, startup funding from Faculty Research Fund (Summer 2003 – Summer 2006)
- installed and maintained bioinformatics software for HHMI seminar (AY 2001 – 2002)
- upgraded from SuSE 6.4 Linux to SuSE 7.2 Linux (Summer 2001)
- implemented transition from Red Hat 6.0 to SuSE 6.4 Linux (Summer 2000)
- implemented transition from Macintosh to Linux (Summer 1999)
- coordinate services (e.g., NIS+, NFS) with campus ACC (AYs 1999 – 2003)
- schedule lab jointly for Computer Science, Math, Astronomy, Physics, and Art (ongoing)
- identify and supervise undergraduate student assistants (ongoing)

Drexel University, Philadelphia, Pennsylvania

www.pgsist.net

Visiting Assistant Professor of Computer Science, Julys 2000 – (two week commitment)

Software Design Track of the Pennsylvania Governor's School for Information, Science and Technology (PGSIST), now Drexel University Computing Academy (DUCA), teaching introductory computer science to high school students.

Villanova University, Villanova, Pennsylvania

www.csc.villanova.edu

Visiting Assistant Professor of Computer Science (graduate program)

- Algorithms and Programming (2003)
- Operating Systems (1999)

Beaver College (now Arcadia University), Glenside, Pennsylvania

www.arcadia.edu

Visiting Assistant Professor of Computer Science (Spring 1998)

- Applied Computer Graphics (graduate course)

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Bryn Mawr College, Bryn Mawr, Pennsylvania
Visiting Assistant Professor of Computer Science (Fall 1997)
• Introduction to Data Structures

www.brynmawr.edu

The Shipley School, Bryn Mawr, Pennsylvania
Interim Instructor, September 1997
• Senior Honors Advanced Placement Computer Science

Philadelphia College of Textiles and Science,
(now Philadelphia University), Philadelphia, Pennsylvania
Assistant Professor of Computer Science and Mathematics, 1991 – 1995
Visiting Assistant Professor of Computer Science and Mathematics, 1987 – 1991

www.philau.edu

- Business Calculus
- Finite Mathematics
- Quantitative Methods
- Calculus and Analytic Geometry I
- Calculus and Analytic Geometry II
- Computers and Programming I (CS1)
- Computers and Programming II (CS2)
- Computer Organization (CS3)
- Assembly Language (VAX/VMS)
- Scientific Programming (FORTRAN)
- Algorithms/Data Structures (EL1)
- Compiler Design (EL3)
- Numerical Methods (EL10)
- Operating Systems - undergraduate (EL11) and graduate (EL12)
- Parallel Algorithms (EL12)

Coordinator: Cooperative Education Program in Science and the Annual Summer High School Workshop in Science; *Liaison* to the Admissions Department. Completely revised the curriculum in Computer Science; initiated the curriculum in Applied Mathematics.

Temple University, Philadelphia, Pennsylvania
Graduate Assistant, 1985 – 1987: VAX/VMS assembly courses.

www.cis.temple.edu

Drexel University, Philadelphia, Pennsylvania
Teaching Assistant, 1983 – 1985: Finite Math, Pascal Programming.
Research Assistant, 1984 – 1985: Numerical Solution of PDEs (ELLPACK).

www.cs.drexel.edu

American Foundation for Negro Affairs, 117 South 17th Street, Philadelphia, Pennsylvania
Computer Instructor, 1984 – 1985: Programming courses in FORTRAN and Pascal.

RESEARCH IN COMPUTER SCIENCE EDUCATION

Garcia, D.D., Lewis, C.M., Dougherty, J.P., and Jadud, M.C. “If _____, you might be a computational thinker!” In *Proceedings of the Forty-first Annual Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, Milwaukee, Wisconsin, March 12, 2010 (reviewed special session).

Griffin, J., Dougherty, J.P., Pirmann, T., and Powell, R. “Certification and standards for computing education in Pennsylvania.” *Journal of Computing Sciences in Colleges*, 25, 3 (Jan. 2010), 9 (reviewed panel session).

Fischer, A. E., Kesden, G., Dougherty, J. P., and Hoffman, M. E. “Integrating data-intensive scalable computing into the computer science curriculum.” *Journal of Computing Sciences in Colleges*, 24, 6 (Jun. 2009), 80 – 83 (reviewed panel session).

Dougherty, J. P. “Using lyrics and music to reinforce concepts.” *Journal of Computing Sciences in Colleges*, 23, 3 (Jan. 2008), 106 – 113. *

* *Best Paper Award* for CCSCE 2007.

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Clancy, R., Dougherty, J.P., Papalaskari, M.A., and Ruether, A. “Tending an important garden: Connecting K-16 CS teachers.” Poster presentation at the *Second Annual MSPGP Mathematics and Science Educational Research Conference* (www.mspgp.squarespace.com), October 27, 2007.

Dougherty, J. P. Concept visualization in CS0 using *ALICE*. *Journal of Computing Sciences in Colleges*, 22, 3 (Jan. 2007), 145 – 152.

Popyack, J.L., Char, B., and Dougherty, J.P. “Rapid prototyping with the Tablet SDK – software development experiences for high school students.” Presented at the *Workshop on the Impact of Pen-based Technology on Education (WIPTe)*, Purdue University, West Lafayette, Indiana, April 6 – 7, 2006 [www.itap.purdue.edu/tlt/conference/wipte]; also presented at the *Conference on TabletPCs in Education*, Pace University, New York, New York, April 26 – 27, 2006.

Dougherty, J.P., and Wonnacott, D.G. “Use and assessment of a rigorous approach for CS1.” In *Proceedings of the Thirty-sixth Annual Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, St. Louis, Missouri, February 2005; published in *Inroads: The SIGCSE Bulletin*, 37(1): 251 – 255, March 2005.

Congdon, C.B., Dougherty, J.P., Evans, M., LeBlanc, M., Little, J.C., Prey, J., Stojkovic, V., and Tymann, P. “Computer science and bioinformatics.” In *Math and Bio 2010: Linking Undergraduate Disciplines*. Lynn Arthur Steen, Editor. Mathematical Association of America, 2005, pp. 75 – 82.

Dougherty, J.P., Garcia, D.D., Horton, T., and Roger, S.H. “Panel on teaching faculty positions.” In *Proceedings of the Thirty-fifth Annual Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, Norfolk, Virginia, February 2004 (reviewed panel session).

Dougherty, J.P., Clear, T., Cooper, S., Decechi, T., Richards, B., and Wilusz, T. “Information technology fluency in practice.” Working group of *The Seventh Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE)*, Aarhus, Denmark, June 23 – 27, 2002; published in *Inroads: The SIGCSE Bulletin*, 35(2): 153 – 171, June 2003.

Dougherty, J.P. “Information technology fluency at a liberal arts college: Experience with implementation and assessment.” Presented at *The Eighteenth Annual Consortium for Computing Science in Colleges (CCSC) Eastern Conference*, Bloomsburg University, Bloomsburg, Pennsylvania, October 18 – 19, 2002; published in *The Journal of Computing Sciences in Colleges*, 18(3): 166 – 174, February 2003.

Dougherty, J.P., Kock, N., Sandas, C, and Aiken, R.M. “Teaching the use of IT in specific domains: Developing, assessing and refining a curriculum development framework.” *Education and Information Technologies*, 7(2): 137 – 154, June 2002.

Austing, R.A., Cover, F., Dougherty, J.P. (chair), East, J.P., and Schneider, G.M. (PFG6) “Computing across the curriculum.” Chapter 12 in “Computing curricula 2001,” The Joint Task Force on Computing Curricula, E. Roberts, editor. *Journal on Educational Resources in Computing*, 1(3es), ACM Press, 2001 (see www.computer.org/education/cc2001/final/).

Dougherty, J.P., and Lauckner, K. “Computing across the curriculum.” In *Proceedings of the Thirty-second Annual Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, Charlotte, North Carolina, February 2001 (“birds of a feather” session).

Dougherty, J.P., and Miller*, T. “An open source computer science laboratory.” In *Proceedings of the Sixteenth Annual Eastern Small College Computing Conference*, Scranton, Pennsylvania, October 28, 2000, 152 – 160.

* undergraduate student

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RESEARCH IN DEPENDABLE PARALLEL SCIENTIFIC COMPUTING

Crawford, F., Cantino*, A., Dougherty, J.P., Sherman*, R., and Dhital*, S. "Distributed processing and archiving of radio pulsar data at small colleges." (unpublished)

Cantino*, A., Crawford, F., Dhital*, S., Dougherty, J.P., and Sherman*, R. "A low cost distributed computing approach to pulsar searches." Presented at the *Eleventh SIAM Conference on Parallel Processing for Scientific Computing*, San Francisco, California, February 24 – 27, 2004.

Dougherty, J.P. "Structured performability analysis of parallel applications." *Informatica*, 23(1): 107 – 111, April 1999.

Doty*, N., and Dougherty, J.P. "Parallel application performance on a network of workstations." *Supercomputing '98*, Orlando, Florida, November 9 – 13, 1998. (poster presentation)

Dougherty, J.P. "Performability models for replicated workers." *European Simulation Symposium*, Erlangen-Nuremberg, Germany, October 26 – 28, 1995.

Dougherty, J.P. "A performability model for a replicated worker application." *Second International Conference on Computer Theory and Informatics*, Wrightsville Beach, North Carolina, September 28 – October 1, 1995.

Dougherty, J.P. "A performability model for parallel and distributed applications." *Mid-Atlantic Workshop on Programming Languages and Systems*, East Stroudsburg University, East Stroudsburg, Pennsylvania, April 8, 1995.

Dougherty, J.P. "Variable - sized partitioning approaches for a distributed algorithm." *Joint Conference on Information Sciences*, Pinehurst, North Carolina, November 14 – 16, 1994.

Dougherty, J.P. "Monte Carlo integration in a heterogeneous distributed environment." in *Proceedings of the 26th Annual Hawaiian International Conference on System Sciences*, Maui, Hawaii, January 4 – 8, 1993.

Blathras, K., Dougherty, J.P., and Shi, Y. "The Synergy system - tools for computing the future." *Florida State University Workshop on Cluster Computing*, Tallahassee, Florida, December 5, 1992.

Shi, Y., Liu, L., Blathras, K., and Dougherty, J.P. "Synergy - tools for computing the future." Video-poster presentation at the *Fifth Annual Conference on High-Performance Computing*, Minneapolis, Minnesota, November 12 – 15, 1992.

SUPERVISED UNDERGRADUATE PROJECTS AND THESES

Picone, N. "A review of garbage collection in computer science." Senior Thesis in Computer Science at Haverford College, 2010, *in progress*.

Hilton, S. "Anonymity and privacy on the Internet." Senior Thesis in Computer Science at Haverford College, 2009, 17 pgs.

Scheinerman, M. "Exploring augmented reality." Senior Thesis in Computer Science at Haverford College, 2009, 23 pgs.

Carriero, J. "Diversity issues in computing education." Independent Study in Computer Science at Haverford College, Fall, 2008.

Hollowell, J. "Test-suite-driven-development for introductory computing education." Independent Study in Computer Science at Haverford College, Fall, 2008.

Scheinerman, M. "K-12 computing education." Independent Study in Computer Science at Haverford College, Fall, 2008.

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Walker, A. "Computational linguistics." Senior Thesis in Computer Science at Haverford College, 2007 (D. Kumar of Bryn Mawr primary advisor; also for Linguistics at Swarthmore).

Ambrogi, T. "Heuristic counterpoint." Senior Thesis in Computer Science at Haverford College, 2004, 27 pgs.

Dhital, S., Sherman, R., and Cantino, A. "Radio pulsar survey of unidentified EGRET sources." *Proceedings of the Keck Northeast Astronomy Consortium (KNAC) Research Symposium*, Wellesley College, Wellesley, MA, October 24-25, 2003.

Barkan, D. "A parallel application of the Smith-Waterman algorithm." Presented at the *Seventh Annual Consortium for Computing at Small Colleges, Northeastern Conference*, Worcester, Massachusetts, April 19, 2002; *The Journal of Computing in Small Colleges*, 17(4): 175 – 176.

Breimyer, P. "The Fast Fourier Transform in the MPEG encoding algorithm." Senior Thesis in Computer Science and in Mathematics at Haverford College, 2001, 33 pgs.

Bouchard, D. "Inverse kinematics." Senior Thesis in Computer Science at Haverford College, 2001, 40 pgs.

Palmeter, H. "Web-based tools for a restaurant database." Senior Project in Computer Science at Bryn Mawr College, 2001, 17 pgs.

Waziruddin, S. "An investigation of view morphing: Generating visually consistent image transformations." Senior Thesis in Computer Science at Bryn Mawr College, 2000, 28 pgs.

Bowlby, A. "Information technology: A tool or a distraction in the fifth grade classroom?" Independent Study Project in Computer Science at Haverford College, May 2000, 15 pgs.

Wable, K.M. "JaCQ: An interactive application to demonstrate programming in CS0." Presented at the *Fifth Annual Consortium for Computing at Small Colleges, Northeastern Conference*, Ramapo College of New Jersey, Mahwah, New Jersey, April 28 - 29, 2000; published in *The Journal of Computing in Small Colleges*, 15(5): 326 – 327, May 2000.

Miller, T. "Art of the Small." Submitted to *IEEE Software*, November 1999.

PROFESSIONAL AWARDS AND GRANTS

"Preparing Students and Teachers for Large-Scale Cluster Computing." *National Science Foundation* (IIS), PI: Edward Lazowska (University of Washington), Co-PI: John Dougherty, \$49,778, June 2008.

Best Paper Award, Consortium for Computing Sciences at Colleges Eastern Conference, St. Joseph's College, Patchogue, New York, 2007 (www.sjcny.edu/ccsce2007)

Mellon Tri-College Fellowship, Haverford College, 2002

Dissertation Grant, Temple University, 1996

INVITED PRESENTATIONS

"How to sing like a computer scientist." Annual Dinner of the *Princeton Chapter of the Association of Computing Machinery*, May 21, 2009 (princetonacm.acm.org).

"Computational singing." Reception address at the *Twentieth Anniversary Celebration of UPE, the Computer Science Honor Society*, Drexel University, February 26, 2009.

"Well, my computing teacher sings to us!: Making music to learn." Keynote/Banquet Presentation, *Twenty-fourth Annual Consortium for Computing Science in Colleges (CCSC) Eastern Conference*, Hood College, Oct 11, 2008; also *Journal of Computing Sciences in Colleges*, 24(3) January 2009, 5.

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“Replanting the Garden: Uncovering Students with Potential for Computing.” Opening Address, *Pennsylvania Community College Computer Consortium Fall 2007 Meeting* (www.pa4c.net), Community College of Philadelphia, November 2, 2007.

“Virtual Worlds and Concepts in Computing.” In conjunction with *Envisioning Science: Photographs by Felice Frankel*, Cantor Fitzgerald Gallery (www.cantorfitzgeraldgallery.org), Fall 2007.

“Alice in HaverLand.” Invited Talk, *Alice Symposium*, Duke University, Durham, North Carolina, June 2006. (www.cs.duke.edu/csed/aliceworkshop/day2.html).

PROFESSIONAL REVIEWS

Asanovic K., Bodik R., Demmel J., Keaveny T., Keutzer K., Kubiawicz J., Morgan N., Patterson D., Sen K., Wawrzynek J., Wessel D., Yelick K. “A view of the parallel computing landscape.” *Communications of the ACM* 52(10): 56-67, 2009; Reviewed by Dougherty, J.P., *Computing Reviews*[¥], Dec 3, 2009.

Edwards S., Snyder J., Pérez-Quiñones M., Allevato A., Kim D., Tretola B. “Comparing effective and ineffective behaviors of student programmers.” *Proceedings of the Fifth International Computing Education Research Workshop*, Berkeley, CA, Aug 10-11, 2009) 3-14. 2009; Reviewed by Dougherty, J.P., *Computing Reviews*, Oct 16, 2009.

Tsagala, E. and Kordaki, Y. “Critical factors influencing secondary school pupil’s decisions to study computing in tertiary education: Gender differences.” *Education and Information Technology* (2007) 12:281–295; Reviewed by Dougherty, J.P., *Computing Review*, Jun 11, 2008.

Goldwasser M. and Letscher D. “Teaching strategies for reinforcing structural recursion with lists.” Object oriented programming systems and applications companion, Montreal, Quebec, Canada, Oct 21-25, 2007, 889 – 896; Reviewed by Dougherty, J.P., *Computing Reviews*, Jan 8, 2008.

Akbulut, A.K., And Looney, C.A., “Inspiring Students to Pursue Computing Degrees.” *CACM* 50(10) October 2007, 67 – 71; Reviewed by Dougherty, J.P., *Computing Reviews*, Nov 29, 2007.

Hourcade J., Garcia O., Perry K. “Learning observation skills by making peanut butter and jelly sandwiches.” *CHI '07 Extended Abstracts on Human Factors in Computing Systems*, San Jose, CA, 1753-1758. 2007; Reviewed by Dougherty, J.P., *Computing Reviews*, Jul 2, 2007.

Huang C., Rajasekaran S., Yang L., He X. “Finding Hamiltonian paths in tournaments on clusters.” *Cluster Computing* 9(3): 345-353, 2006; Reviewed by Dougherty, J.P., *Computing Reviews*, Apr 5, 2007.

Herbert, C. *Programming in Alice*. 2006. (compensated textbook review)

Becker-Pechau P., Bleek W., Lilienthal C., Schmolitzky A. “Educating non-programmers to flexible, communicative software engineers in a 10 month training program.” *Proceedings of the 17th Conference on Software Engineering Education and Training (CSEET'04)*, Mar 1-3, 2004, 98 – 103; Reviewed by Dougherty, J.P., *Computing Reviews*, Aug 31, 2005.

Dann, W., Cooper, S., and Pausch, R. *Learning to Program with Alice (Beta Version)*. Prentice-Hall, 2005. (compensated textbook review)

Giulietti A., Bougard B., Perre L. Turbo codes: desirable and designable. Kluwer Academic Publishers, Norwell, MA, 2004. Reviewed by Dougherty, J.P., *Computing Reviews*, August 2004.

Sterling T., Lusk E., Gropp W. Beowulf cluster computing with Linux. MIT Press, Cambridge, MA, 2003. Reviewed by Dougherty, J.P., *Computing Reviews*, August 2004.

[¥] www.reviews.com

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Karatzas H. Simulation of parallel and distributed systems scheduling. In *Applied System Simulation*, Kluwer Academic Publishers, Norwell, MA, 2003. Reviewed by Dougherty, J.P., *Computing Reviews*, April 2004.

Snyder, L. *Fluency with Information Technology: Skills, Concepts and Capabilities*. Addison-Wesley, 2004. (compensated textbook review)

Singleton D. "Website performance monitoring: An efficient, transparent and easy to use cluster operating system." Chapter in *Software Quality and Software Testing in Internet Times*. Springer-Verlag, New York, 2002. Reviewed by Dougherty, J.P., *Computing Reviews*, June 2003.

Huertas J., Avedillo M., Quintana J. "Efficient realization of a threshold voter for self-purging redundancy." *Journal of Electronic Testing: Theory and Applications* 17(1): 69 – 73, 2001. Reviewed by Dougherty, J.P., *Computing Reviews*, April 2003.

Ueberhuber C., Kvasnicka D., Gansterer W., Ehold H. "Optimizing local performance in HPF." *Parallel Computing* 28(3): 415 – 432, 2002. Reviewed by Dougherty, J.P., *Computing Reviews*, January 2003.

Dolev D., Birman K., Rodeh O. "The architecture and performance of security protocols in the ensemble group communication system: Using diamonds to guard the castle." *ACM Transactions on Information and System Security* 4(3): 289 – 319, 2001. Reviewed by Dougherty, J.P., *Computing Reviews*, May 2002.

Beacham M., Becker K. "A tool for teaching advanced data structures to computer science students: An overview of the BDP system." *The Journal of Computing Sciences in Colleges* 16(2): 65 – 71, 2001. Reviewed by Dougherty, J.P., *Computing Reviews*, January 2002.

"Fluency with Information Technology at Temple University (CIS155): Independent Observations." December 2000, 7 pages (compensated evaluation report of NSF DUE Grant #9951418).

SERVICE AT HAVERFORD COLLEGE

2008 – *Member*, working group on faculty meeting effectiveness

2008 – *Member*, committee on environmental responsibility

2007 – HHMI* Computer Science Education Summer Institute
Coordinated five-day workshop for K-12 educators to explore teaching tools and techniques for computing concepts. [www.cs.haverford.edu/csesi/]

Summer 2006 HHMI Cascade Mentoring
Supervised D. Letts (Haverford student), Leonard Beqiraj (high school teacher), and two high school students in a project to assess the effectiveness of two tools (*Alice* and *JES*) to learn foundational computing concepts, including discrete mathematics.

2006 – 2008 *Member, ad hoc* Committee for UnityFest

2005 – 2008 *Chair*, Computer Science

2005 – 2008 *Member*, Steering Committee of the Koshland Integrated Natural Science Center

2005 – 2006 *Member*, Steering Committee of the Center for Peace and Global Citizenship

2005 – 2008 *Member, ad hoc* Committee on Campus Website

2004 – 2005 *Member, ad hoc* Committee for Disabilities Awareness

2003 – *Member*, Committee on Safety and Security

* Howard Hughes Medical Institute [www.hhmi.org]

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- 2003 – 2004 *Member*, Committee on Radiation/Laboratory Safety
- 2002 – 2004 *Member, ad hoc* Committee on OneCard Access
- 2001 – 2002 *Member*, Committee on Computing and Information Technology
- Novembers *Coach* of the undergraduate programming team
- 2000 – 2004 ACM Mid-Atlantic Regional Programming Contest
- Apr 2002 *Coach*, CCSCNE Programming Contest, Worcester, Massachusetts
- 2000 – 2002 Customs Program www.students.haverford.edu/customs

PROFESSIONAL SERVICE

- 2009 *K-12 Liaison*, Consortium for Computing Sciences at Colleges (CCSC) Eastern Conference (www.ccsc.org), Villanova University, October 30 – 31, 2009.
- 2005 – *Founding Steering Committee Member and Secretary*, Philadelphia Area Computer Science Educators (PACSE), a regional advocacy group for K-16 computing education issues, such as Pennsylvania state teaching standards & certification, as well as workshops on educational practices (www.csc.villanova.edu/pacse); now a chartered chapter of the Computer Science Teachers Association (CSTA: www.csta.acm.org).
- 2005 – 2008 Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium, (www.sigcse.org):
- *Symposium Chair*, Portland, Oregon, 2008
 - *Program Chair*, Covington, Kentucky, 2007
 - *Panels and Special Sessions Chair*, Houston, Texas, 2006
 - *Publications Chair*, St. Louis, Missouri, 2005
- 2008 – *Reviewer*, ACM Transactions on Computing Education.
- Nov 2007 *Program Committee*, Workshop on Educating the Web-Generation, at the International Joint on Web Intelligence and Intelligent Agent Technology (WI-IAT'07), Silicon Valley, USA, Nov 2 – 5 (www.effactory.com/Edu4WebGen).
- 2007 – *Reviewer*, IEEE Transactions on Education.
- Jul 2007 *Reviewer*, Information Systems Management Journal (issue on eCollaboration).
- 2003 – 2005 Consortium for Computing Sciences at Colleges (CCSC) Eastern Conference (www.ccsc.org), *Papers Chair*:
- Iona College, New Rochelle, New York, 2005.
 - Loyola College of Maryland, Baltimore, Maryland, 2004
 - Montclair State University, Upper Montclair, New Jersey 2003
- 2005 *eScience* Conference, Australia, reviewer
- Jul 9, 2003 *Facilitator* of a three-hour workshop on parallel scientific computing. Howard Hughes Medical Institute (HHMI) Cascade Outreach Program, Haverford College.
- Jun 2003 *Proposal Reviewer*, Science, Technology, Engineering, and Mathematics Talent Expansion, National Science Foundation, Arlington, Virginia (compensated).
- Mar 2003 *Invited Panelist*, Education Across the Biological, Mathematical, and Computer Sciences, Bethesda, Maryland (<http://pub.nigms.nih.gov/challenges/>). Computer science, mathematics and statistics in biology education and research, (sponsored by NSF, NIGMS, AAAS, MAA, ASM).

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- Feb 2001 *Invited Panelist*, information technology usage in education. Temple University, Philadelphia, Pennsylvania, (CIS and Education Departments)
- 2000 – 2001 *Chair, Pedagogy Focus Group 6: Computing Across the Curriculum*. ACM/IEEE-CS Computing Curriculum 2001: (www.computer.org/education/cc2001/final)
- 2001 – *IEEE Transactions on Education*, reviewer www.ewh.ieee.org/soc/es/
- 2000 – Information Technology in Computer Science Education (ITiCSE) Technical Annual Symposium, reviewer (www.iticse.org)
- 2000 – 2005 SIGCSE Annual Technical Symposium, reviewer (www.sigcse.org)
- 2000 – CCSCE and CCSCNE Annual Conferences, reviewer (www.ccsc.org)
- 1998 *Informatica* (journal), reviewer (orca.st.usm.edu/informatica)

PROFESSIONAL DEVELOPMENT

- Apr 2009 CCSCNE 2009 Annual Conference, panelist and attendee
- 2008 – Grace Hopper Celebration of Women in Computing Conference, scholarship reviewer
- Jul 2008 Data-Intensive Scalable Computing in Education, University of Washington workshop coordinator and co-PI of NSF funded project www.cs.washington.edu/homes/ak/clusterworkshop
- May 2008 SIGCSE/CSTA K-12 Roadshow workshop, Mountain View, CA, attendee blog.acm.org/archives/csta/2008/06/making_k12_outtr.html
- 1999 – SIGCSE Annual Technical Symposium, attendee (10x, missed 2002)
- 2000 – CCSCE Annual Conferences, attendee (8x, missed 2005)
- Nov 9, 2007 Connecting computing faculty across discipline and university boundaries, Villanova University (NSF-CPATH: L. Cassel), attendee what.csc.villanova.edu/%7Ecassel/2007CPATH/VU-Workshop-Page.html
- Oct 27, 2007 Second Annual MSPGP Mathematics and Science Educational Research Conference, Bryn Mawr College (<http://mbspgp.squarespace.com/>), poster presentation
- Sep 2007 International Computing Education Research Workshop (ICER), Georgia Institute of Technology (www.cc.gatech.edu/conferences/icer2007), attendee
- Apr 2007 CCSCNE 2007 Annual Conference, attendee
- Aug 2006 Math-Science Partnership of Greater Philadelphia and Project Kaleidoscope (MSPGP-PKAL) Leadership Institute, Kirkridge Retreat, Bangor, Pennsylvania, July 31 – August 4 (NSF: V. Donnay).
- Jun 2005 “Making Programming Accessible with *Alice*.” Coordinator for this workshop for high school and college teachers (42 participants), Haverford College, Haverford, Pennsylvania (NSF-DUE-EHS-CCLI: W. Dann and S. Cooper).
- 2004 – 2006 NSF-MSPGP Seminar on Math and Science Pedagogy, participant
- Jun 2004 “Workshop for Programming in *Alice*.” St. Joseph’s University, Philadelphia, Pennsylvania (NSF-DUE-EHS-CCLI: W. Dann and S. Cooper).
- 2002 – 2003 Science and Society, HHMI Seminar, Haverford College, participant.
- 2002 ITiCSE Technical Symposium, Aarhus, Denmark, attendee and working group chair.
- 2002 CCSCNE Conference, attendee and programming contest judge.

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- 2001 – 2002 Bioinformatics, HHMI Seminar, Haverford College, participant and tech support.
- 2000 Eastern Small College Computing Consortium (ESCCC) Conference, University of Scranton, Scranton, Pennsylvania, presenter and attendee.
- 2000 – 2001 Computing Across the Sciences, HHMI Seminar, Haverford College, participant.
- Jun 2000 “Increasing non-science undergraduate student fluency with information technology from within CS0.” NSF-EHS-DUE-CCLI Grant Proposal (not accepted).
- Jun 2000 “A Comprehensive Suite of Laboratory Projects for an Object-Oriented Computer Science Curriculum.” Northeastern University, Boston, Massachusetts (NSF-EHS-DUE-CCLI: V. Proulx).
- Apr 2000 CSCCNE Conference, attendee and student research judge.
- Oct 1999 Open Source/Open Science Technical Symposium, Brookhaven National Laboratory, Long Island, New York, attendee.
- Jun 1998 “Workshop for Undergraduate Parallel Computing.” Colgate University, Hamilton, New York (NSF-DUE-EHS-CCLI: C. Nevison).

COMMUNITY SERVICE

- Aug 2009 – *Parent’s Representative to the Board of Managers*
Overbrook School for the Blind, Philadelphia, Pennsylvania www.obs.org
- Mar 2005 – *Treasurer, Parent’s Education Resource Committee (PERC)*
Overbrook School for the Blind, Philadelphia, PA www.perc-osb.blogspot.com
- Nov 2004 – John P. Sharp Memorial Scholarship Committee
Archbishop Wood High School, Warminster, Pennsylvania
- Sep 2002 – Rotary Club of Ardmore, Ardmore, Pennsylvania www.ardmorerotary.org
Board Member, Public Relations, Website and Youth Exchange Counselor
- Jul 2001 – Special Parents of Exceptional Children (SPEC), Chestnut Hill, Pennsylvania
Founding Member www.specialparents-exceptionalchildren.blogspot.com
- Jun 1995 – Friends of Erik, Chestnut Hill, Philadelphia, Pennsylvania
Oct 2007 *Associate Board Member* www.runforthehillsofit.org
Two annual fundraisers for the family of a child in a severe medical situation.
- Sep 1994 – Rotary Club of Chestnut Hill, Philadelphia, Pennsylvania
Apr 1998 *Charter Member* www.chestnuthillrotary.org
Vice-President (1996 – 1997) and Charter Secretary (1994 – 1996)
- Octobers
1995 – 1998 Philadelphia AIDS Walk, Philadelphia, Pennsylvania
Volunteer / Musician www.critpath.org/fawol/walk.html
- Oct 1993 Betak, Mount Airy, Philadelphia, Pennsylvania
May 1994 *Volunteer / Musician*: Performed for AIDS patients and their families.

PERSONAL

Member of Kappa Mu Epsilon, CCSC, CSTA, PACSE, ACM, and SIGCSE. Interests include music, guitar, athletics/sports, advocacy for accessibility, and my family.