

Curriculum Vita
Charles B. Pheatt
April, 2008

Department of Mathematics, Computer Science and Economics
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Education

Ph.D. Computer Science, Illinois Institute of Technology, August, 1995.

Thesis: Computer Generation of D-Optimal Experimental Designs Using Genetic Algorithms.

M.S. Computer Science, Illinois Institute of Technology. December, 1993.

Research Topic: A Computer Simulation of a Pooling and Prediction Methodology for Linear Regression.

Course work toward M.S. in Computer Science. 1975-1976. Bowling Green State University.

Course work toward M.S. in Computer Science. 1974-1975. Rensselaer Polytechnic Institute.

B.S. Statistics, August, 1973. Colorado State University.

Professional Experience

Professor	Department of Mathematics, Computer Science and Economics, Emporia State University.	7/08 to present
Associate Professor	Department of Mathematics, Computer Science and Economics, Emporia State University.	7/02 to 6/08
Assistant Professor	Department of Mathematics, Computer Science and Economics, Emporia State University.	8/96 to 6/02
Visiting Lecturer	Department of Computer Science, Northeastern Illinois University.	8/95 to 5/96
Lecturer	Computer Science and Applied Mathematics Department, Illinois Institute of Technology.	6/94 to 7/95
Teaching Assistant	Computer Science Department, Illinois Institute of Technology.	9/93 to 6/94
Consultant	Provide software development activities, computer consulting, statistical consulting and data analysis services to manufacturing and quality control units of light manufacturing, food, energy and pharmaceutical businesses.	1/92 to present
Industry Experience	Held positions in the pharmaceutical, cast metals and aerospace industries as an associate director, manager, programmer and statistician.	8/73 to 1/92

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Funded Proposals & Other External Funding

Pheatt, C., May, 2007. Wolf Creek Operating Corporation, equipment donation. Original equipment cost specified.	\$37,000
Ballester, J. and Pheatt, C., March, 2004. Subcontract to NASA EPSCoR Seed Grant for Structural and Aerodynamic Optimization of Ultralightweight Technology for Research in Astronomy.	\$15,000
Ballester, J. and Pheatt, C., March, 2003. Subcontract to NASA EPSCoR Seed Grant for Structural and Aerodynamic Optimization of Ultralightweight Technology for Research in Astronomy.	\$14,500
Pheatt, C., IEEE Computer Society International Design Competition, December 2000. Equipment and software.	\$2,005
Pheatt, C., IEEE Computer Society International Design Competition, December 1999. Equipment and software.	\$1,650
Yanik, J. and Pheatt, C., NSF DUE-CCLI/EMD, "Mathematical Activities Using JavaBeans", August 1999. Funded for 3 years.	\$165,648
Pheatt, C. and Cable, A., Fujitsu Corp., Low Level Performance Tuning Initiative. Equipment and software	\$6,500

Internal Funding

Pheatt, C., Emporia State University, Academic Enhancement Proposals, September, 2008. Funded for 1 year	\$800
Pheatt, C., J. Ballester, Emporia State University, Academic Enhancement Proposals, September, 2007. Funded for 1 year	\$1,371
Pheatt, C., Emporia State University, Academic Enhancement Proposals, May, 2007. Funded for 1 year	\$2,520
Pheatt, C., Emporia State University, Academic Enhancement Proposals, May, 2006. Funded for 1 year	\$1,875
Pheatt, C., Emporia State University, Academic Enhancement Proposals, May, 2005. Funded for 1 year.	\$3,500
Pheatt, C. et al, Emporia State University, Academic Enhancement Proposals, May, 2004. Funded for 1 year.	\$20,000
Pheatt, C., Emporia State University, Innovation Committee Proposal, "Online Experimentation Support". May, 2004. Funded for 1 year.	\$3,000
Pheatt, C. and Ballester, J., Emporia State University Faculty Research and Creativity Committee, "3-D Image Acquisition Development". August, 2004. Funded for 1 year.	\$3,500
Pheatt, C., Emporia State University, Academic Success Proposal, "Online Experimentation Extension/Expansion". October, 2002. Funded for 1 year.	\$5,000
Pheatt, C. and Ballester, J., Emporia State University Faculty Research and Creativity Committee, "Creation of On-line Physics Activities". August, 2002. Funded for 1 year.	\$2,300
Pheatt, C. and Cable, A., Emporia State University Faculty Research and Creativity Committee, "A Study of Internet Bandwidth Reduction via Image Compression Methods". August 1998. Funded for 1 year.	\$5,100

Publications

Pheatt, C., Introducing USB Technology Into the Undergraduate CS Curriculum, *Journal of Computing Sciences in Colleges*, Volume 23 Issue 4, April 2008.

Pheatt, C., An easy to use distributed computing framework, *ACM SIGCSE Bulletin*, Proceedings of the 38th SIGCSE technical symposium on Computer science education SIGCSE '07, Volume 39 Issue 1, March, 2007.

Pheatt, C., Division by integers using multiplication: nifty assignment, *Journal of Computing Sciences in Colleges*, Volume 22 Issue 4, April 2007.

Pheatt, C., Network Distributed Computing Using DCEZ, *The Journal of Computing Sciences in Colleges*, p. 9-15, Volume 21, Number 4, April, 2006.

Pheatt, C., Ballester, J. and Willhelmi, D., "Low-cost three-dimensional scanning using range imaging," *The Journal of Computer Science in Colleges* 20(4): 13-19. April, 2005.

Pheatt, C., "Integrating OO Concepts Into a CS0 Course," *The Journal of Computer Science In Colleges* 19(4): 215-219. April, 2004.

Ballester, J and Pheatt, C., "Demonstrating Newtonian Physics On the Internet", *The Physics Teacher*, January, 2004.

Pheatt, C. and Ballester, J. "Creating Web-Based Experiments," *The Journal of Computing in Small Colleges* 18(4): 238-245. April, 2003.

Pheatt, C. and Choi, H-S. "Creating an Undergraduate Course in Parallel Computing Using PVM," *The Journal of Computing in Small Colleges* 15(4): 85-91. April, 2000.

Pheatt, C. B. "Evaluation of the USP Sampling Plans for Dissolution," *Journal of Quality Technology* 12(3):158-164, 1983.

Conference Publications

Pheatt, C. "Integrating OO Concepts into a CS0 Course", *Proceedings Of The Spring 2005 Faculty Student Multidiscipline International Conference On Teaching*, Volume 5, Number 1, May 2005.

Pheatt, C. and Ballester, J. "Learning Mathematics Through Web Based Experiments," *Proceedings of the 16th Annual International Conference on Technology in Collegiate Mathematics*. November, 2003.

Yanik, J. and Pheatt, C. "Java Mathematics," *Proceedings of the 14th Annual International Conference on Technology in Collegiate Mathematics*. November, 2001.

Yanik, J. and Pheatt, C. "Using Java to Teach Mathematics," *Proceedings of the 13th Annual International Conference on Technology in Collegiate Mathematics*, pp. 381-384. November, 2000.

Yanik, J. and Pheatt, C. "Java Tools for Mathematicians," *Proceedings of the 12th Annual International Conference on Technology in Collegiate Mathematics*, pp. 420-423. November, 1999.

Yanik, J. and Pheatt, C. "Mathematical JavaBeans," *Proceedings of the 11th Annual International Conference on Technology in Collegiate Mathematics*, pp. 512-515. November, 1998.

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Yanik, J. and Pheatt, C. "Java for Mathematicians," *Proceedings of the 10th Annual International Conference on Technology in Collegiate Mathematics*, pp. 512-515. November, 1997.

Pheatt, C. B. "A Computer Simulation of a Pooling and Prediction Methodology for Linear Regression," *Proceedings of the 1994 Summer Simulation Conference*, pp. 763-768. June, 1994.

Pheatt, C. B. Review of "Resampling Statistics," *Journal of Quality Technology* 25(4):319-321, 1993.

Wagner, W. G. and Pheatt, C. B. "APSICOST Life Cycle Cost Model," *American Institute of Aeronautics and Astronautics 12th Annual Propulsion Conference Proceedings*. AIAA, New York, N.Y., 1976.

Presentations

Pheatt, C., "Tutorial: Intel Threading Building Blocks", 14th Annual CCSC Central Plains Conference, University of Missouri, Kansas City, April, 2008.

Pheatt, C., "Nifty Course assignment: The Soft Side of Software Engineering", 14th Annual CCSC Central Plains Conference, University of Missouri, Kansas City, April, 2008.

Pheatt, C. and Ballester, J. "Using Markov Chains for Modeling in the Classroom," 17th Annual Kansas City Regional Mathematics Technology Expo, Kansas City, Missouri, October, 2007.

Ballester, J. and Pheatt, C., Bringing Parallel Computation to the Classroom. Arkansas-Oklahoma-Kansas Section, American Association of Physics Teachers, 2006 Section Meeting, October 27-28, 2006.

Ballester, J. and Pheatt, C., Testing Batteries as a Student Project in Industrial Physics, with J. Ballester. Arkansas-Oklahoma-Kansas Section, American Association of Physics Teachers, 2006 Section Meeting, October 27-28, 2006.

Pheatt, C. and Ballester, J. "Rediscovering Nomograms in a Digital Age," 15th Annual Kansas City Regional Mathematics Technology Expo, Kansas City, Missouri, October, 2005.

Pheatt, C. and Ballester, J. "Studying the Mathematics of Sound Waves and Harmonics Using On-Line Experimental Activities," 14th Annual Kansas City Regional Mathematics Technology Expo, Kansas City, Missouri, October, 2005.

Pheatt, C. and Ballester, J. "From Circles to Parabolas to Astronomical Telescopes," 14th Annual Kansas City Regional Mathematics Technology Expo, Kansas City, Missouri, October, 2004.

Pheatt, C. and Ballester, J. "Studying the Mathematics of Sound Waves and Harmonics Using On-Line Experimental Activities," 13th Annual Kansas City Regional Mathematics Technology Expo, Kansas City, Missouri, October, 2003.

Pheatt, C. and Ballester, J. "Using On-Line Experimentation," 12th Annual Kansas City Regional Mathematics Technology Expo, Kansas City, Missouri, October, 2002.

Pheatt, C. "Creating Custom Activities with the Vernier LabPro," 11th Annual Kansas City Regional Mathematics Technology Expo, Kansas City, Missouri, October, 2001.

Yanik, J. and Pheatt, C. "Integrating Java Into the Mathematics Curriculum," 9th Annual Kansas City Regional Mathematics Technology Expo, Kansas City, Missouri, October, 1999.

Awards

Emporia State University 2001 Technology Award.

Emporia State University 2007 10 year Service Award.

Professional Service

Reviewer, National Science Foundation, Directorate for Education and Human Resources (EHR), Division of Undergraduate Education (DUE), Course, Curriculum, and Laboratory Improvement (CCLI), June, 2007.

Steering Committee and Webmaster, Consortium for Computing Sciences in Colleges, Central Plains Conference, 2006-present.

Assessment Officer, Kansas City Mathematics Technology Expo., 2007-present.

Reviewer, Kansas Academy of Science, 2005.

Reviewer, National Science Foundation, Directorate for Education and Human Resources (EHR), Division of Undergraduate Education (DUE), Course, Curriculum, and Laboratory Improvement (CCLI), June, 2005.

Reviewer, National Science Foundation, Directorate for Education and Human Resources (EHR), Division of Undergraduate Education (DUE), Course, Curriculum, and Laboratory Improvement (CCLI), June, 2003.

Steering Committee, 11th Annual Consortium for Computing Sciences in Colleges, Central Plains Conference, Spring, 2004.

Conference Chair, 10th Annual Consortium for Computing Sciences in Colleges, Central Plains Conference, Spring, 2003.

Steering Committee, 9th Annual Consortium for Computing in Small Colleges, Central Plains Conference, Spring, 2002.

Reviewer for the new edition of *Programming in True BASIC: Problem Solving with Structure and Style*, Stewart M. Venit & Sandra Schleiffers, 1999.

Facilities Chair, 4th Annual Consortium for Computing in Small Colleges, Central Plains Conference, Emporia State University, Emporia Kansas, 1998.

Faculty Advisor for the Association for Computing Machinery ESU student organization, 1996 to present.

Web page contest chair, Fourth Annual Consortium for Computing in Small Colleges, Central Plains Conference, Emporia State University, Emporia Kansas, Spring, 1998.

Papers chair, Fourth Annual Consortium for Computing in Small Colleges, Central Plains Conference, Emporia State University, Emporia Kansas, 1998.

Reviewer, IEEE Potentials, 1996-2000.

Reviewer, Biopharmaceuticals Statistics, 1993-2000.

Reviewer, *Journal of Computing in Small Colleges*, Central Plains Conference, 1997-present.

University Service

Emporia State University, Faculty Senate, 2008-9.

Emporia State University, Critical Resources Work Group, 2007-8.

Emporia State University, Faculty Sponsor, Association for Computing Machinery, ESU student chapter, 1997-present.

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Emporia State University, Infrastructure Information Technology Advisory Group, 2006-7.
Emporia State University, Computer Advisory Committee, 2000 to 2002.
Emporia State University, Web Advisory Committee, 2001-2002, 2004-5.
Emporia State University, Animal Case and Use Committee, August 2000-2002.
Emporia State University, Information Resources Studies major Steering Committee, 1998 to present.
Department of Mathematics, Computer Science, and Economics, Chair, Computer Science Committee, 1998 - present.
Department of Mathematics, Computer Science, and Economics, Home Page Task Force, 1996-7.
Department of Mathematics, Computer Science, and Economics, Chair, Assessment Committee, 1998-9.
Department of Mathematics, Computer Science, and Economics, Chair, Outstanding High School teacher Award Committee, 1998-9.
Department of Mathematics, Computer Science, and Economics, Engineering Committee, 2000-8.
Department of Mathematics, Computer Science, and Economics, Chair, Assessment Task Force, 2004-5.
Emporia State University, Career Services Advisory Council. 1997-2002.
Emporia State University, Faculty Ombudsman, 1998-9, 2001-2.
Emporia State University, Research and Creativity Board, 1997-9.
Illinois Institute of Technology, working group for the development of the bachelor's degree in Manufacturing Technology. IIT Manufacturing Productivity Center. 1994.

Teaching

Have taught the following semester undergraduate and graduate courses.

Advanced C/C++ Programming, Northeastern Illinois State University, 1996.
Algorithms and Data Structures I, Emporia State University, 1997, 1999, 2006.
Algorithms and Data Structures II, Emporia State University, 1998, 1999, 2000, 2002.
Artificial Intelligence, Northeastern Illinois State University, 1996.
Artificial Intelligence, Emporia State University, 2004.
Computer Graphics, Emporia State University, 2003, 2005.
Computer Networks and Internets, Emporia State University, 1997-2002, 2007, 2008.
Computer Security, Northeastern Illinois State University, 1995.
Computers In Manufacturing, Illinois Institute of Technology, 1995-1996.
Database Applications, Northeastern Illinois State University, 1996.
Database Organization, Emporia State University, 2001, 2002-2007.
Database Theory, Emporia State University, 1998, 1999.
Elements of Computer Science, Emporia State University, 2000, 2001.
Emerging Network Technologies, Emporia State University, 2001.
Introduction to Computer Programming, Emporia State University, 1996-2006.
Introduction to Computer Science, Emporia State University, 1996, 1997, 2000, 2002, 2004-8.
Introduction to Personal Computing, Northeastern Illinois State University, 1995-1996.
Microcomputer Problem Solving, Emporia State University, 1996, 1997, 1999.
Object Oriented Program Design, Emporia State University, 1998.

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Operating Systems, Emporia State University, 2001.
Parallel and Concurrent Programming, Emporia State University, 2008.
Pattern Recognition, Northeastern Illinois State University, 1995.
Principles of Computer Organization, Emporia State University, 1997.
Principles of Software Engineering, Emporia State University, 1997-2006, 2008.
Programming Languages, Emporia State University, 1998, 2000, 2002, 2006, 2008.
Regression analysis, Emporia State University, 2005.
SAS programming, Emporia State University, 1999, 2003, 2006.
Seminar in Computer Science, Emporia State University, 1997-2001, 2003, 2004, 2006.
Simulation Techniques, Emporia State University, 1998, 2007.
Software Implementation and Utilization, Emporia State University, 2000.
System Programming, Emporia State University, 1996, 1997, 2006.
Systems Analysis, Northeastern Illinois State University, 1995.
Unix Programming, Emporia State University, 1999-2004, 2007.
Web Training Course, Emporia State University, 1998.
Windows Programming, Emporia State University, 2004.

Professional Society Affiliations

Member, Society for Computer Simulation. 1992-present.
Member, Association for Computing Machinery. 1992-present.
Member, IEEE Computer Society. 1992-present.
Fellow, American Society for Quality Control. 1988-present.
Member, American Statistical Association. 1972-present.
Consortium for Computing Sciences in Colleges, 1997-present.