Curriculum Vitae as of 2015-02-01
Max Hailperin

Department of Mathematics and Computer Science
Gustavus Adolphus College
St. Peter, Minnesota 56082

Academic Positions:

Professor	2005–
Department Chair	2004-2007, 2013
Associate Professor	1996–2004
Assistant Professor	1990–1996

Education:

Ph.D., Computer Science, Stanford University	1994
S.B., Computer Science and Engineering, MIT	1985

Journal Articles:

"Comparing Conservative Coalescing Criteria," *ACM Transactions on Programming Languages and Systems*, Volume 27, Number 3 (May, 2005), pp. 571-582.

"Cost-Optimal Code Motion," *ACM Transactions on Programming Languages and Systems*, Volume 20, Number 6 (November, 1998), pp. 1297-1322.

Textbooks:

Operating Systems and Midddleware: Supporting Controlled Interaction, Course Technology, 2006. (Revised versions released 2011–2014.)

Concrete Abstractions: An Introduction to Computer Science Using Scheme, with Barbara Kaiser and Karl Knight, Brooks/Cole, 1999.

State Government Task Force Membership:

Minnesota Electronic Roster Task Force	2013–2014

Testimony before Minnesota Legislative Committees:

Regarding electronic rosters (also known as electronic pollbooks)	2011, 2014
Regarding online voter registration	2014

Consulting Contracts, Minnesota Office of the Secretary of State:

Regarding interstate data matching	2014
Regarding election-day registration	2012

Conference Presentations:

"Rewrite Cycles in CS Courses: Experience Reports," *Proceedings of the Thirty-Third SIGCSE Technical Symposium on Computer Science Education*, Covington, Kentucky, 2002, pp. 249-250. (Panel organizer as well as presenter.)

"Computer Science: An Emerging Liberal Art?," Association of Lutheran College Faculties, Saint Peter, Minnesota, 2001.

"Coalescing as an Aid to Interference-Graph Coloring," *Code Optimisation: Trends, Challenges and Perspectives*, Schloss Dagstuhl, Germany, 2000.

"Concurrency the First Year: Experience Reports," *Proceedings of the Thirty-First SIGCSE Technical Symposium on Computer Science Education*, Austin, Texas, 2000, pp. 407-408.   (Panel organizer as well as presenter.)

"Using Invariants and UML in Teaching Object-Oriented Design," half-day workshop at the Thirtieth SIGCSE Technical Symposium on Computer Science Education, New Orleans, Louisiana, 1999.

"Accommodating Diversity of Academic Preparation in CS1," panel organized by Martin Dickey, *Proceedings of the Twenty-Ninth SIGCSE Technical Symposium on Computer Science Education*, Atlanta, Georgia, 1998, pp. 361-362.

"Introducing Fixed-Point Iteration Early in a Compiler Course," *Proceedings of the Twenty-Eighth SIGCSE Technical Symposium on Computer Science Education*, San Jose, California, 1997, pp. 258-261.

"Scheme for a Hands-On Abstraction-Based Trial Experience of Computer Science," *Proceedings of the Twenty-Ninth Annual Small College Computing Symposium*, Saint Cloud, Minnesota, 1996, pp. 259-263.

"Collaboratively Teaching Multidisciplinary Courses," *Proceedings of the Twenty-Seventh SIGCSE Technical Symposium on Computer Science Education*, Philadelphia, Pennsylvania, 1996, pp. 385-386. (Panel presenter.)

"Computer Science: The First Year – Beyond Language Issues," panel organized by Owen Astrachan, *Proceedings of the Twenty-Seventh SIGCSE Technical Symposium on Computer Science Education*, Philadelphia, Pennsylvania, 1996, pp. 389-390.

"Load Balancing for Massively-Parallel Soft-Real-Time Systems," in *Proceedings of Frontiers '88: The Second Symposium on the Frontiers of Massively Parallel Computation*, IEEE Computer Society Press, 1988, pp. 159-163.

"The Parallel ECRC Prolog System PEPSys: An Overview and Evaluation Results," by U. Baron, J. C. de Kergommeaux, M. Hailperin, M. Ratcliffe, P. Robert, J.-C. Syre, and H. Westphal, in *Proceedings of the International Conference on Fifth Generation Computer Systems*, Tokyo, Japan, 1988, pp. 841-850.

Commentary:

"Viewpoint: The COPA Battle and the Future of Free Speech," *Communications of the ACM*, Volume 42, Issue 1 (January 1999), pp. 24-25.

Reviews:

Reviews of eleven books and eighteen articles for *Computing Reviews* as well as one book for *Computing in Science & Engineering*.

Dissertation:

"Load Balancing using Time Series Analysis for Soft Real Time Systems with Statistically Periodic Loads" (Advisor: Anoop Gupta)

Patent:

European Patent 252176, "Logic Program Parallel Processing System," January 13, 1988, with Harald Westphal and Jean-Claude Syre

Grants:

NSF grant DUE-0220541, "Rooted in the Timeless, with Eyes on the Future: A Student Support Project in Computer Science and Mathematics," Principle Investigator/Project Director. $391,812. Provided scholarships and supporting opportunities for our students, with an emphasis on connections with alumnae/i and employers. 2002–2007

NSF grant DUE-9152548, "Exploring Computational Abstractions: An Introductory Laboratory," co-Principal Investigator/Project Director with Barbara Kaiser. $48,120. Reshaped both the content and the delivery format of the two-semester introductory CS sequence. 1991–1993

Honors:

National Association of Secretaries of State Medallion Award	2014
Faculty Service Award	2014
Edgar M. Carlson Award for Distinguished Teaching	2002

Non-Academic Positions:

Researcher, European Computer-industry Research Centre, Munich	1985-1986
Firmware engineer, Data Technology Corporation, Santa Clara, California	1984
Software engineer, Knoware, Inc., Cambridge, Massachusetts	1983-1984

College Service:

Faculty Senate (chair, 2013–2015)	2013–2015
Personnel Committee (chair, 2008–2009)	2007–2010
Provost Search Committee	2006–2007
Academic Planning Subcommittee	2005–2006
Academic Probations Committee	2004–
Campus Framework Planning Committee	2001–2003
Faculty Forum Moderator	2000–2003
Strategic Framework Planning Committee	2001–2002
Personnel Committee (chair, 1999–2000)	1998–2000
Nobel Conference committee	1998
Compensation Subcommittee	1995–1997
Area D Committee (chair, 1994–1997)	1993–1997
Instructional Resources Subcommittee	1993–1995
Guild of St. Ansgar selection committee	1992, 1995

Professional Service:

External reviewer, Computer Science Department, Univ. of Northern Iowa	2007
External reviewer, computer science program, Wheaton College	2007
External reviewer, Computer Science Department, Hope College	2006
Conference Liaison, SIGCSE Technical Symposium committee	2002
Mentor, Preparing Future Faculty program, University of Minnesota	2000
Review panel member, NSF Division of Undergraduate Education	1999
External reviewer, computer science program, Samford University	1999
External reviewer, computer science program, Metropolitan State University	1995