

Curriculum Vitae as of 2008-05-16
Max Hailperin

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

Academic Positions:

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| Professor | 2005– |
| Department Chair | 2004–2007 |
| Associate Professor | 1996–2004 |
| Assistant Professor | 1990–1996 |

Education:

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| 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 Middleware: Supporting Controlled Interaction, Course Technology, 2006.

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

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 PEPsSys: 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 ten books and seventeen articles for *Computing Reviews*, listed at reviews.com.

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

Symposia Organized:

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| 25 Years of Computer Science at Gustavus: A Celebration | 2004 |
| Workshop on Abstraction-Centered Introductory CS Courses | 1992 |

Grants:

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| 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 |
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| 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 |
| Honor: | |
| 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: | |
| Personnel Committee (chair, 2008–2009) | 2007– |
| 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 |
| Professional Affiliations: | |
| Liberal Arts Computer Science Consortium | |
| Association for Computing Machinery | |