Abbreviated Vita – Alan Borning

Education

- Ph.D., Computer Science, Stanford University, 1979. Advisor: Professor Terry Winograd. Thesis title: ThingLab—A Constraint-Oriented Simulation Laboratory.
- M.S., Computer Science, Stanford University, 1973.
- B.A., Mathematics, Reed College, Portland, Oregon, 1971.

Employment

- Department of Computer Science and Engineering, University of Washington, 1980 present. Current rank: Professor (since 1993).
- Visiting Scientist at Rank Xerox EuroPARC, Cambridge, England, Sept 1989 Sept 1990.
- Visiting Professor at University of Melbourne and Monash University, Australia, January–July 1997.

Recent Publications (a selection)

- 1. Alan Borning, Richard Lin, and Kim Marriott, "Constraint-based Document Layout for the Web," to appear in ACM Multimedia Systems Journal.
- Greg Badros, Alan Borning, Kim Marriott, and Peter Stuckey, "Constraint Cascading Style Sheets for the Web," *Proceedings of the 1999 ACM Conference on User Interface Software and Technology*, November 1999.
- Alan Borning and Bjorn Freeman-Benson, "Ultraviolet: A Constraint Satisfaction Algorithm for Interactive Graphics," CONSTRAINTS: An International Journal, Special Issue on Constraints, Graphics, and Visualization, Vol. 3 No. 1, April 1998, pages 9–32.
- Alan Borning, Richard Lin, and Kim Marriott, "Constraints for the Web," Proceedings of the 1997 ACM Multimedia Conference, November 1997, pages 173-182.
- Warwick Harvey, Peter J. Stuckey, and Alan Borning, "Compiling Constraint Solving using Projection," Proceedings of the Third International Conference on the Principles and Practice of Constraint Programming, October 1997, pages 491-505.
- Alan Borning, Kim Marriott, Peter Stuckey, and Yi Xiao, "Solving Linear Arithmetic Constraints for User Interface Applications," *Proceedings of the 1997 ACM Conference on User Interface Software and Technology*, October 1997, pages 87-96.
- Alan Borning, Richard Anderson, and Bjorn Freeman-Benson, "Indigo: A Local Propagation Algorithm for Inequality Constraints," *Proceedings of the 1996 ACM Symposium on User Interface Software and Technology*, November 1996, pages 129–136. (Best Paper Award.)
- Gus Lopez, Bjorn Freeman-Benson, and Alan Borning, "Implementing Constraint Imperative Programming Languages: The Kaleidoscope'93 Virtual Machine," Proceedings of the 1994 ACM Conference on Object-Oriented Programming Systems, Languages, and Applications, October 1994, pages 259–271.
- Molly Wilson and Alan Borning, "Hierarchical Constraint Logic Programming," The Journal of Logic Programming, special issue on Constraint Logic Programming, Vol. 16 Nos. 3 & 4, (July, August 1993), pages 277–318.
- Michael Sannella, John Maloney, Bjorn Freeman-Benson, and Alan Borning, "Multi-way versus Oneway Constraints in User Interfaces: Experience with the DeltaBlue Algorithm," Software—Practice and Experience, Vol. 23 No. 5, (May 1993), pages 529–566.

Awards

• Forsythe Memorial Award, Fulbright Senior Scholar Award, University of Washington Minority Science & Engineering Program faculty recognition award.

Recent Grants

- National Science Foundation Grant IRI-9302249, "Constraint-Based Languages and Environments for Building Interactive Systems," \$180,000, July 1994–June 1997.
- National Science Foundation Grant CCR-9402551, "Constraint Imperative Programming," \$180,000, August 1994–July 1997.
- Fulbright Senior Scholar Award for lecturing and research in constraint-based languages and systems, Monash University and University of Melbourne, Australia, January-July 1997.
- University of Washington University Initiatives Fund, "Puget Sound Regional Synthesis Model: Human Dimension: Development of an Integrated Urban Ecological Simulation Model for the Puget Sound" Marina Alberti, Alan Borning, and Paul Waddell, October 1998–June 2000.
- National Science Foundation Grant CMS-9818378 (Urban Research Initiative), "Reusable Modeling Components for Simulating Land Use, Transportation, and Land Cover," Paul Waddell, Alan Borning, Scott Rutherford, and Marina Alberti, \$439,357, February 1999–January 2001.
- National Science Foundation Grant IIS-9975990 (Human Computer Interaction Program), "Using Constraints to Enable Flexible Access and Interaction on the Web," \$315,601, August 1999–July 2002.

Program and Organizing Committees, Boards, Editorships (a selection)

Associate Editor, ACM Computing Surveys, 1981–1983; Northwest Regional Representative, Board of Directors, Computer Professionals for Social Responsibility, 1983–1987; Eleventh Annual Principles of Programming Languages Conference, 1984; ACM Conference on Object-Oriented Programming Systems, Languages, and Applications, 1986, 1987, 1990, 1993; European Conference on Object-Oriented Programming, 1988, 1992; Program Chair, Second Workshop on the Principles and Practice of Constraint Programming; Organizing Committee Member, International Conferences on Constraint Programming, 1993–present; Steering Committee, NSF Interactive Systems Grantees Workshop, 1995.

Ph.D. Students Graduated

• Jeffrey Scofield (1985), Robert Duisberg (1986), Bjorn Freeman-Benson (1991), John Maloney (1991), Molly Wilson (1993), Michael Sannella (1994), Gustavo Lopez (1997).

Recent Courses Taught (a selection)

• Human Computer Interaction (MS course); Human Computer Interaction (PhD course); Compilers (undergraduate); Concepts of Programming Languages (PhD course); Comparative Programming Languages (undergraduate), Introductory Programming (freshman), Computers and Society (undergraduate) uate/graduate).