TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Dr. Vicki L. Almstrum Title: Lecturer

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
PHD	1994	University of Texas at Austin	Mathematics Education	
MS	1990	University of Texas at Austin	Computer Sciences	
MA	1980	Arizona State University	Mathematics	
BAED	1977	Arizona State University	Mathematics	

C. University Experience

Position	*University*	*Dates*
Adjunct Faculty, Computer Science Department	Texas State University. San Marcos, TX, United States	August 2017 - Present
Adjunct Professor	DeVry University	June 2011 - December 2014
Adjunct Professor	Strayer University	January 2011 - December 2014
Lecturer, Department of Electrical and Computer Engineering	University of Texas at Austin	January 2007 - December 2009
Lecturer, Department of Computer Sciences	The University of Texas at Austin	January 1996 - December 2006
Research Assistant, Department of Computer Sciences	The University of Texas at Austin	May 1992 - December 1992
Graduate Teaching Assistant, Department of Computer Sciences	The University of Texas at Austin	August 1989 - December 1992
Software Engineer, Software Technology Section, Microsystems, Semiconductor Products Sector	Motorola, Inc.	February 1982 - February 1984
Graduate Teaching Assistant, Department of Mathematics	Arizona State University	January 1978 - May 1980

D. Relevant Professional Experience

Position	*Entity*	*Dates*
Research Associate	Department of Computer Sciences, University of Texas at Austin	January 2007 - December 2007
Visiting Professor	Department of Mathematics and Computer Science, Southwestern University	January 2007 - May 2007
Visiting Lecturer	Department of Computer Systems, Uppsala University, Sweden	January 1997 - June 1997
Visiting Lecturer	Department of Computer Systems, Uppsala University, Sweden	August 1995 - November 1995
Quality Support Project Member	Quality Department, Philips Elektronikindustrier AB, Philips Data Systems, Järfälla, Sweden	October 1985 - May 1987
Software Engineer	Tools and Methods Group, Development Department, Philips Elektronikindustrier AB, Philips Data Systems, Järfälla, Sweden	March 1984 - June 1985
Ada Tracker	Advanced Technology and Systems Analysis Section, Radar Operations, Government Electronics Group, Motorola Inc.	August 1980 - February 1984
Software Engineer	Advanced Technology and Systems Analysis Section, Radar Operations, Government Electronics Group, Motorola Inc.	July 1980 - February 1982
Graduate Summer Intern	Western Data Service Center, Convair Division, General Dynamics	July 1979 - August 1979

II. TEACHING

A. Teaching Honors and Awards:

Award / Honor Recipient: Outstanding Service Learning Faculty Award, The University of Texas Volunteer and Service Learning Center and the Lyndon Baines Johnson Presidential Library.
2006

Award / Honor Recipient: Provost's Professional Development Award.
2006

Award / Honor Recipient: Teaching Excellence Award, College of Natural Sciences, The University of Texas at Austin.
1999

Award / Honor Nominee: Outstanding Teaching Assistant in College of Liberal Arts, Arizona State University.
1980

B. Courses Taught:

Texas State University:

CS 2315 - COMPUTER ETHICS

Abstract Data Types:

Algorithms and Data Structures:

Analysis of Programs (Discrete Mathematics):

Computer-Human Interfaces:

Educational Research Methods :

International senior design project course:

Multi-disciplinary senior design course :

Software Engineering:

•Contemporary Issues in Computer Science:

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):

Independent Study, Status: Completed. (1996 - 2006). Computer Sciences, The University of Texas at Austin.
Student(s):

Member, Dissertation, "Investigating the Group Development Process in Distributed Student Software Project Teams", Status: Completed. (2003). Kingston University, Kingston UK.
Student(s): Mary Z. Last, Doctoral, Computing and Information Systems.

Supervisor / Chair, Dissertation, "Perceptions of Teaching and Learning Automata Theory in a College-Level Computer Science Course", Status: Completed. (2003). The University of Texas at Austin.
Student(s): Phoebe Kay Weidmann, Doctoral, Science Education with Computer Science specialization.

Supervisor / Chair, Honor's Thesis, "Web Site Design for Effective Online Education of Computer Science", Status: Completed. (2002). Computer Sciences, The University of Texas at Austin.
Student(s): Alex Lee, Undergraduate, Computer Science.

Supervisor / Chair, Graduate Independent Research, "Constructivism and Learning in CS Education", Status: Completed. (2000). Computer Sciences, The University of Texas at Austin.
Student(s): Jason Ermer, Graduate, Computer Science.

F. Other:

Seminar, Research Methods in Computer Science Education, Department of Computer Systems, Uppsala University. Uppsala, Sweden. 15. (2005).

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

1. Books:

d. Chapters in Books:

Refereed:

Almstrum, V. L. (1996). Investigating student difficulties with mathematical logic. In N. Dean & M. Hinchey (Eds.), *Teaching and Learning Formal Methods*. Academic Press.

2. Articles:

a. Refereed Journal Articles:

Almstrum, V. L., Barker, L. J., Owens, B. B., Adams, E., Aspray, W., Dale, N. B., … Schwartzman, L. (2005). Building a Sense of History: Narratives and Pathways of Women Computing Educators Working Group Report. *In Inroads – SIGCSE Bulletin*, *37*, 173–189.

Almstrum, V. L. (2003). What is the attraction to computing? *Communications of the ACM*, *46*, 51–55.

Almstrum, V. L., Naps, T. L., Rößling, G., Dann, W., Fleischer, R., Hundhausen, C., … Velázquez-Iturbide, J. A. (2002). Exploring the role of visualization and engagement in computer science education, 131–152.

Almstrum, V. L., McCracken, M., Diaz, D., Guzdial, M., Hagen, D., Kolikant, Y., … Wilusz, T. (2001). A multi-national, multi-institutional study of assessment of skills of first year CS students. *SIGCSE Bulletin Inroads*. Published.

Almstrum, V. L., Dean, C. N., Goelman, D., Hilburn, T., & Smith, J. (2001). Support for Teaching Formal Methods. *SIGCSE Bulletin Inroads*, *33*, 71–88.

Almstrum, V. L. (2000). Support for Teaching Formal Methods, Report of the ITiCSE 2000 Working Group on Formal Methods Education. *Proceedings of ACM SIGCSE/SIGCUE*. Published.

Almstrum, V. L. (1999). • The Propositional Logic Test as a Diagnostic Tool for Misconceptions about Logical Operations. *Journal of Computers in Mathematics and Science Teaching*, *18*. Published.

Almstrum, V. L. (1998). • Resources for Mentoring: Mentoring Definitions. In Science's Next Wave. Published.

Almstrum, V. L., Petre, M., Dale, N., Berglund, A., Granger, M., Little, J. C., … Springsteel, F. (1996). Evaluation: turning technology from toy to tool: report of the working group on evaluation. *Proceedings of the 1st SIGCSE/SIGCUE Conference on Integrating Technology into Computer Science Education*, 201–217.

Almstrum, V. L., & Wu, C. (1993). • The CSedRes toolbox: a resource to support research in computer science education. *SIGCSE Bulletin*, *25*, 21–26.

Almstrum, V. L., & Platt, D. C. (1991). Summary of post-symposium evaluations. *SIGCSE Bulletin*, *23*, 27–30.

3. Conference Proceedings:

a. Refereed Conference Proceedings:

Almstrum, V. L., Henderson, P. B., Harvey, V., Heeren, C., Marion, W., Riedesel, C., … Tew, A. E. (2006). Concept Inventories in Computer Science for the Topic Discrete Mathematics Working Group Report. In *SIGCSE Bulletin* (Vol. 38, pp. 132–145).

Almstrum, V. L. (2006). Men are from toys: women are from tools.

Almstrum, V. L. (2005). What attracts women to CS?

Almstrum, V. L. (2005). Challenges to Computer Science Education Research. In *SIGCSE Bulletin inroads* (Vol. 37, p. 191).

Almstrum, V. L. (2004). Computer Science Education Research as a Scientific Endeavor.

Almstrum, V. L. (2004). Issues in Software Engineering Education.

Almstrum, V. L. (2003). Transfer to/from Computing Science Education: The Case of Science Education Research (pp. 303–304).

Almstrum, V. L. (2002). Import/Export to/from Computer Science Education Research: The Case for Mathematics Education. In *Proceedings of the 7th Annual Conference on innovation and Technology in Computer Science Education* (pp. 193–194.).

Almstrum, V. L. (2002). • Mathematics, Computer Science, and Women (pp. 131–132).

Almstrum, V. L. (2001). Interaction Factors in Software Development Performance in Distributed Student Groups. In *Proceedings of ACM SIGCSE/SIGCUE Conference on Innovation and Technology in Computer Education*.

Almstrum, V. L. (2000). An International Student/Faculty Collaboration: The Runestone Project. In *SIGCSE Bulletin inroads* (pp. 128–131).

Almstrum, V. L. (2000). An International Student/Faculty Collaboration: The Runestone Project.

Almstrum, V. L. (1998). • A Web Site to Support Computer Science Education as a Research Area. In *SIGCSE Bulletin* (Vol. 30, p. 42a–45a).

Almstrum, V. L. (1998). Runestone, an International Student Collaboration Project.

Almstrum, V. L. (1997). A Smorgasbord of Pedagogical Dishes.

Almstrum, V. L. (1997). Getting started in CS education research (pp. 375–376).

Almstrum, V. L. (1994). A resource for research in Computer Science Education: The CSedRes Toolbox.

Almstrum, V. L. (1993). Improving mentoring for women in computer science fields. In *Proceedings of the 1993 ACM Computer Science Conference and the 24th SIGCSE Technical Symposium* (p. 540).

Almstrum, V. L. (1992). A Hypercard–based aid for grading team projects.

Almstrum, V. L. (1991). The Relationship between pre-college mathematics and the undergraduate Computer Science curricula. In *SIGCSE Bulletin* (Vol. 23, pp. 124–129).

5. Reports:

Almstrum, V. L. (2001). • *A Software Engineering Project Course at the University of Texas at Austin. FASE: Forum for Advancing Software engineering Education* (Vol. 11).

Almstrum, V. L. (1999). • *A Course with Service-Oriented Project Work, FASE: Forum for Advancing Software Engineering Education* (Vol. 9).

B. Works Not in Print:

1. Papers Presented at Professional Meetings:

Almstrum, V. L., Educational Issues Workshop at ZUM'95 (Z User's Group Meeting), "Student difficulties with mathematical logic," Limerick, Ireland. (September 1995).

Almstrum, V. L., UT Austin summer workshop for Advanced Placement Teachers, "The Propositional Logic Test and its Application." (June 1992).

Almstrum, V. L., meeting of IFIP Working Group 2.4 (on System Implementation Languages), "The use of data abstraction as a design technique," Utrecht, Netherlands. (October 1983).

Almstrum, V. L., Lenferink, J., meeting of IFIP working group 2.4 (on system implementation languages), "MOST: A prototype operating system generator," Phoenix, AZ, United States. (March 1983).

2. Invited Talks, Lectures, and Presentations:

Almstrum, V. L., College of Natural Sciences Discover Learning Luncheon, "A multi-faceted approach to teach Software Engineering." (April 1999).

3. Consultancies:

Academic, National Science Foundation Special Project Grant. (January 2007 - December 2007).

Academic, Texas Statewide Systemic Initiative project for Strengthening the Mathematical Preparation of Elementary School Teachers. (1994 - 1998).

4. Workshops:

Almstrum, V. L., Klappholz, D., Modesitt, K., Proceedings of the 38th SIGCSE Technical Symposium, "Planning and Executing Real Projects for Real Clients Courses.," Covington, KY, United States. (March 2007).

Almstrum, V. L., Klappholz, D., Modesitt, K., 19th Conference on Software Engineering and Training, "Real Projects for Real-Clients Courses," CSEE&T 2006, Oahu, HI, United States. (April 2006).

Almstrum, V. L., 8th Annual Conference on Software Engineering Education, "Research Methods in Computer Science Education." (1995).

Almstrum, V. L., 8th Annual Conference on Software Engineering Education, "Research Methods in Computer Science Education." (1995).

Almstrum, V. L., 24th, 25th, 26th, 27th, 28th, and 29th SIGCSE Technical Symposia, "Research Methods in Computer Science Education." (1993).

5. Other Works not in Print:

b. Works "in progress":

Conference Proceedings:

Almstrum, V. L. (2006). Are they learning what (we think) we're teaching? (p. 195).

C. Scholarly / Creative Grants and Contracts:

1. Funded External Grants and Contracts:

Almstrum, Vicki Lynn. ACM SIGCSE Special Project Grant — Computing Educators Oral History Project (CEOHP) Growth: Awardee Interviews and Website Update, $5,000.00. (Funded: May 2017). Grant.

Almstrum, Vicki Lynn. Collaborative Research: Discrete Mathematics in Computing Education, Other, $99,759.00. (Funded: 2006 - 2008). Grant.

Almstrum, Vicki Lynn. Project for Undergraduate Computer Science Faculty Enhancement and Materials Development in the Central Texas Region. (Funded: 1993). Grant.

3. Funded Internal Grants and Contracts:

Almstrum, Vicki Lynn. The University of Texas at Austin UTOPIA Project, Other, $50,000.00. (Funded: 2004 - 2005). Grant.

Almstrum, Vicki Lynn. The University of Texas at Austin UTOPIA Project, Other, $10,000.00. (Funded: 2004). Grant.

Almstrum, Vicki Lynn. Tivoli Center of Excellence Grant, $10,000.00. (Funded: 2001). Grant.

Almstrum, Vicki Lynn. FAST-TEX Grant (UT Austin ACITS Center for Instructional Technologies Multimedia Lab), $1,000.00. (Funded: 2000). Grant.

Almstrum, Vicki Lynn. Tivoli Center of Excellence Grant, $10,000.00. (Funded: 2000). Grant.

D. Scholarly / Creative Fellowships, Awards, Honors:

Fellowship Recipient: MCD Fellow, Computer Sciences Department, The University of Texas at Austin.
1988 - 1989

Award / Honor Recipient: ACM Student Programming Contest.
1980

Award / Honor Recipient: programming excellence award, ACM Student Programming Contest.
1980

Award / Honor Recipient: Stipend to attend the Western Institute of Computer Science Programming Methodology Lecture Series at The University of California Santa Cruz.
1979

IV. SERVICE

A. Institutional

1. University:

Participant, UT-Interactive open house. (March 1999 - March 2007).

Participant, UTopia Project contributor. (August 1999 - May 2003).

3. Department/School:

Member, Department of Computer Sciences Festivals and Publicity Committee. (August 1999 - December 2000).

Organizer, Software Development and Software Engineering Lecture Series. (August 1998 - May 2000).

Undergraduate Advisor, Student chapter of ACM. (August 1998 - May 1999).

Graduate student organization representative to UT Austin Department of Computer Sciences Undergraduate Studies Committee. (1991 - 1992).

B. Professional:

Member, ACM History Committee. (December 2015 - Present).

Reviewer / Referee, SIGCSE Technical Symposium. (1989 - Present).

Treasurer, ACM Special Interest Group on Computer Science Education (SIGCSE). (July 2004 - June 2007).

Officer, ACM Special Interest Group on Computer Science Education (SIGCSE). (July 2001 - June 2004).

Coordinator / Organizer, SIGCSE Doctoral Consortium. (March 1998 - March 2001).

Program Committee, EASE conference (Evaluation and Assessment in Software Engineering),, Keele University, United Kingdom. (1999 - 2000).

Editorial Review Board Member, Journal of Computers in Mathematics and Science Teaching. (1998 - 2000).

Local Arrangements, SIGCSE Technical Symposium, Austin, United States. (October 1998 - April 1999).

SIGCSE Technical Symposium Program Committee. (April 1998 - April 1999).

C. Community:

Web Team leader, Electronic media strategist for SWEA (Swedish Women's Educational Association). (2008 - Present).

Electronic Communications Coordinator, Rosedale Neighborhood Association, Austin, TX. (1996 - Present).

Steering Committee member, Rosedale Neighborhood Association, Austin, TX. (1996 - Present).

Web site for working group reports from the ACM SIGCSE/SIGCUE Conference on Innovation and Technology in Computer Science Education. (2006 - 2011).

Steering Committee member, local chapter of Swedish Women's Education Association. (2005 - 2007).

Webmaster, local chapter of Swedish Women's Education Association. (2005 - 2007).

Parent Coordinator, The Children's School of Montessori. (2002 - 2007).

Web site for advancing CS Education as an academic area. (1989 - 2007).

Web site for Department of Computer Sciences research group on Computer Science Education. (1989 - 2007).

D. Organization Memberships:

ACM History Committee. (December 2015 - Present).

IEEE Women in Engineering. (August 1995 - Present).

ACM's Special Interest Group on Computer Science Education (SIGCSE). (August 1980 - Present).

ACM's Special Interest Group on Software Engineering (SIGSoft). (August 1980 - Present).

Association for Computing Machinery (ACM). (August 1978 - Present).

IEEE Computer Society. (August 1978 - Present).

International Electrical and Electronics Engineers (IEEE). (August 1978 - Present).

Upsilon Pi Epsilon (UPE). (January 1978 - September 1982).

E. Service Honors and Awards:

Award / Honor Nominee: Service Award, College of Natural Sciences, The University of Texas at Austin.
1999