

# Dr. Susan L. Hendrix

## Contact Information

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## Education

**Ph.D.** Received December 2008, in Computer Science, Department of Computer Science, University of Colorado at Boulder. Minor area: Cognitive Science.

**M.S.** Received December 1981, in Computer Science, Department of Computer Science, University of Nebraska at Lincoln.

**B.Sc.** Received May 1969, in Education with English Major, Department of English, University of Nebraska at Lincoln. Nebraska Pre-standard Teaching Certificate English 7-12.

## Professional Experience

September 2005 to December 2006: Grader: OO Analysis and Design, Department of Computer Science, University of Colorado at Boulder.

August 2001 to August 2005: Research and Teaching Assistant, Department of Computer Science, University of Colorado at Boulder.

Spring Semester 2001: Instructor, Software Engineering Methods and Tools, Department of Computer Science, University of Colorado at Boulder.

1982–2000: Member of Technical Staff: System Test and Software Engineering, Bell Labs, Westminister Colorado.

## Publications

L. Buechley, S. Hendrix, and M. Eisenberg. (2009) *Paints, Paper and Programs: First Steps Toward the Computational Sketchbook*. To appear in the proceedings, Third International Conference on Tangible and Embedded Interaction, Cambridge, UK, February 2009.

Hendrix, Susan Lee. (2008) *Popup Workshop: Computationally Enhanced Paper Engineering for Children*. Ph.D. Dissertation. University of Colorado, Department of Computer Science.

S. Hendrix and M. Eisenberg. (2006) *Computer-Assisted Pop-Up Design for Children: Computationally-Enriched Paper Engineering*. International Journal for Advanced Technology on Learning, Special Issue May/June 2006. Extended version of 2005 paper below .

S. Hendrix and M. Eisenberg. (2005) *Computer-Assisted Pop-Up Design for Children: Computationally-Enriched Paper Engineering*. Computers and Advanced Technology in Education, Oranjestad, Aruba, August 2005, pp. 47-52.

M. Eisenberg, N. Elumeze, L. Buechley, G. Blauvelt, S. Hendrix, and A. Eisenberg. [2005] *The Hometown Museum: Computers, Fabrication, and the Design of Personalized Exhibits*. Creativity and Cognition 2005, London, UK, April 2005.

Hendrix, S. and Eisenberg, M., [2004] *Poster: Computer-Assisted Engineering for Children: a Pop-Up Design Application*. Proceedings of the 6th International Conference of the Learning Sciences, University of California, Los Angeles, CA, June 2004, p. 606.

Hendrix, S. [2004] *Dissertation Proposal: Popup Workshop: Supporting and Observing Children's Pop-up Design*. April 14, 2004, <http://www.cs.colorado.edu/~hendrix/proposal.pdf>.

Eisenberg, M., Eisenberg, A., Hendrix, S., Blauvelt, G., Butter, D., Garcia, J., Lewis, R., Nielsen, T. [2003] *As We May Print: New Directions in Output Devices and Computational Crafts for Children*. In Proceedings of Interaction Design and Children 2003, Preston, UK, pp. 31-39.

L. Lipsky, S. Spence (Hendrix), and S. Seth. [1982] *A Method to Calculate Mean-Time-To-Failure for Duplicated Systems with Non-Exponential Failures*. ACM Computer Science Conference, Indianapolis, Ind., February 1982.

## Research Support and Awards

### **Dorothy R. Martin Doctoral Student Award**

University of Colorado Graduate School, Spring 2005

### **ICS Research Award**

CU Institute of Cognitive Science. 2003–2004

### **BPW Career Advancement Scholarship**

University of Nebraska at Lincoln, 1980

### **Mary E. and Elmer H Dohrman Scholarship**

University of Nebraska at Lincoln, 1980

### **4-year Regent's Scholarship**

University of Nebraska at Lincoln, 1965–1969

## Academic Service

University of Colorado Honor Code Panel Member, 2002–2007

Volunteer: American Indian Young Scholars Program, Colorado School of Mines, 1992–1994

DEEEP: Mathematics Tutoring in Denver High Schools, 1983–1988

Student Chapter ACM Treasurer, University of Nebraska, 1980–1981

## Association Affiliations

Craft Technology Group (CTG), University of Colorado at Boulder

Center for Lifelong Learning and Design (L3D), University of Colorado at Boulder

Institute for Cognitive Science (ICS), University of Colorado at Boulder

## Research Interests

Educational technology; computer science education; children's interactions with computers; science, engineering, mathematics, art and writing education for children; modeling paper crafts on the computer; thinking and learning with objects; design methods using a mixture of computer and traditional physical materials and methods.

## Courses Taught

### **Fall 2001–Fall 2002, Teaching Assistant, University of Colorado at Boulder:**

Principles of Programming Languages: Teaching Assistant for 3 semesters. Taught recitation sections, graded papers and tests, held office hours for students, coordinated with instructors and other teaching assistants.

### **Spring 2001, Instructor, University of Colorado at Boulder:**

Software Engineering Methods and Tools: Had complete responsibility for class of over 50 students, including lectures, assignments and tests on basic software engineering concepts. Designed and managed class website. Assignments included essays on such subjects as high-level design and ethics. Managed two teaching assistants who taught labs in UNIX tools.

### **1979–1982, Teaching Assistant and Assistant Instructor, University of Nebraska at Lincoln:**

Computer Orientation, Basic Assembly Language, Introduction to Digital Computers, FORTRAN, JCL, PASCAL, Data Structures. After the first semester as a teaching assistant for the Computer Orientation class, which was an introduction to the department system required for all majors, served as instructor for all classes, with complete responsibility for lectures, assignments and testing. The FORTRAN and PASCAL classes were introductions for students with no previous computer experience, while the Data Structures class was a sophomore level class. Most classes had approximately 30 students, but the Introduction to Digital Computers class (a class for non-majors) was over 200 students. During one semester, served as head teaching assistant for the Computer Orientation class, which included managing 5 other TAs.