

Curriculum Vita

John Barr

Department of Computer Science
Ithaca College
Ithaca, N.Y. 14850
barr@ithaca.edu
<http://www.ithaca.edu/barr>

Education

Ph D. in Computer Science, The Pennsylvania State University, January, 1992.
Dissertation: Restriction Map Comparison, advisor Dr. Webb Miller.

M.S. in Computer Information Systems, Boston University, September, 1984.

B.S. in Political Science, Massachusetts Institute of Technology, August, 1979.

Work Experience

Associate Professor, August 1998 - Present, Department of Mathematics and Computer Science, Ithaca College, Ithaca, N.Y.

Assistant Professor, August 1991 - August 1998, Department of Mathematics and Computer Science, Ithaca College, Ithaca, N.Y.

Research Assistant/Lecturer/Teaching Assistant, August 1985 -- August 1991. Department of Computer Science, The Pennsylvania State University, University Park, PA.

Computer Consultant, September 1983 -- June 1985.

Army Officer (RA), September 1979 -- September 1983.

Professional

An Environment for Interpreter-based Projects for the Programming Languages Course, Laurie A. King and John Barr, January 2000, NSF grant DUE-9952398.

External Evaluator for the computer science program at Utica College, Utica, NY, May, 2000.

Consultant, Telecine, Inc., Cairo, Egypt, 1999-2001. Provided advice on multimedia and internet design, development, and programming.

Courses Taught

CS 1, 2	Programming Languages
Computer Organization & Assembly Language	Computer Architecture
Operating Systems	Software Engineering
Multimedia Programming	Object-Oriented Programming
Computer Networks	Introduction to Web Programming/Adv Web Programming
Java Programming	Compiler Design
	Algorithms & Data Structures

Courses designed, developed, or substantially changed

- Computer Architecture (designed and implemented; course uses LogicWorks design tools to enhance hands-on understanding of digital design and computer architecture)
- Computer Organization & Assembly Language (redesigned to focus on organization and introductory operating system concepts)
- Programming Languages (developed the MULTiple Language Environment (MuLE) system for teaching PL)
- Operating Systems (redesigned to focus on hands-on labs in Linux)
- Introduction to Web Programming (designed and developed; course covers HTML, CSS, JavaScript, and graphics programs; the course is primarily targeted to non-majors)
- Advanced Web Programming (designed and developed; course covers both client side and server side technologies including javascript and perl/cgi).
- Multimedia Programming (designed and developed the course using Macromedia Director and Flash; the course is primarily targeted to non-majors)
- Robotics (designed a course to teach robotics using the MIT Handy board)
- Implemented experimental courses on Java programming and object-oriented programming. Concepts from both courses were later incorporated into our CS1/CS2/Programming Languages courses

Papers (selected)

Results from Using an Environment for Interpreter-based Projects for the Programming Languages Courses, Barbara M. Moskal, L. A. Smith King, and John Barr, 33rd ASEE/IEEE Frontiers in Education Conference November 5-8, 2003, Boulder, CO.

Interpreter Based Assignments for a Standard Programming Languages Course, John Barr, L.A. Smith King and Ben Coleman. Workshop to be presented at the 32nd Annual ACM SIGCSE Technical Symposium, February 21-25, 2001, Charlotte, NC.

What Could Be More SLic? Projects for the Programming Languages Course, L.A. Smith King, John Barr, and Ben Coleman. Paper to be presented at the 32nd Annual ACM SIGCSE Technical Symposium, February 21-25, 2001, Charlotte, NC.

A Comparison of Operating System Courseware, John Barr, Tracy Camp, Michael Goldweber, John Graham, and Steve Hartley, Panel presented at the 29th Annual ACM SIGCSE Technical Symposium, March 25-27, 1999, New Orleans, LA.

Virtual Reality in Archeology, Michael Malpass, John Barr, and Tony Bo, workshop presented at the 62nd meeting of the Society of American Archeologists, 4 April 1997.

Computer Science for the Artist, Laurie A. Smith King and John Barr, Proceedings of the 27th Annual ACM SIGCSE Technical Symposium, February 27-March 1, 1997, San Jose, CA.

Multiple Paradigms in CS 1, Laurie A. Smith King, Chuck Leska, and John Barr. 27th Annual SIGCSE Technical Symposium, 15-18 February 1996, Philadelphia, Pennsylvania.

An Environment for Interpreter-based Programming Language Projects, John Barr and Laurie A. Smith King, 26th Annual SIGCSE Technical Symposium, 2-4 March 1995, Nashville, Tennessee.