

# 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 and Chair, June 2007 – present, Department of Computer Science, Ithaca College, Ithaca, N.Y.

Visiting Associate Teaching Professor, August 2006 – June 2007, Carnegie Mellon University, Qatar Campus, Doha, Qatar.

Associate Professor, August 1998 – August 2006, 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

*Increasing Conceptual Understanding through Annotation Visualization*, Ananda Gunawardena, Ph.D, Carnegie Mellon University, John Barr, Ph.D. , Ithaca College, David Kaufer, Ph.D. , Carnegie Mellon University, Joanna Wolfe, Ph.D. , University of Louisville, DUE - 0942823 National Science Foundation, Course and Curriculum Improvement Grant, March 2010.

*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
Robotics	Compiler Design
	Mobile Programming

### **Courses designed, developed, or substantially changed**

- Mobile Computing (course focused on the concepts of mobile computing as implemented in iOS for devices such as the iPhone and iPad)
- 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; 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

- Developed a GIS course for nonmajors.

### **Papers, Panels, Posters and Workshops (selected)**

*Using Social Networking to improve student learning through Classroom Salon*, John Barr and Ananda Gunawardena, Accepted for the 43<sup>rd</sup> ACM Technical Symposium, on Computer Science Education (SIGCSE), Feb 29-March 3, 2012, Raleigh, North Carolina.

*Classroom Salon: A Tool for Social Collaboration*, Ananda Gunawardena and John Barr, Accepted for presentation and publication at the 43<sup>rd</sup> ACM Technical Symposium, on Computer Science Education (SIGCSE), Feb 29-March 3, 2012, Raleigh, North Carolina.

*Educating the Educator Through Computation: What GIS Can Do For Computer Science*, John Barr and Ali Erkan, Accepted for presentation and publication at the 43<sup>rd</sup> ACM Technical Symposium, on Computer Science Education (SIGCSE), Feb 29-March 3, 2012, Raleigh, North Carolina.

*What Everyone Needs to Know About Comutation*, John Barr, Steve Cooper, Mike Goldweber, and Henry Walker, panel accepted for the 41<sup>st</sup> ACM Technical Symposium on Computer Science Education, March 10-13, 2010.

*A Method for Analyzing Reading Comprehension In Computer Science Courses*, Ananda Gunawardena, John Barr, Andrew Owens, The 13th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE) 2008.

*Reading in Computer Science*, Ananda Gunawardena and John Barr, Presented at English Literacy for the Global University, The Communication Symposium at Carnegie Mellon University, June 11-13, 2007, Pittsburgh, PA.

*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 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 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 I*, Laurie A. Smith King, Chuck Leska, and John Barr. 27th Annual SIGCSE Technical Symposium, 15-18 February 1996, Philadelphia, Pennsylvania.

*Teaching Programming Languages by Counter Example*, Laurie A. Smith King and John Barr. Proceedings of the 11th annual Eastern Small College Computing Conference, October 20-21 1995, Iona College, New York, New York.

*MuLE User's Manual*, L.A Smith King and John Barr, Ithaca College Technical Report 95-001.

*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.

*Interpreter-Based Projects for a Traditional Programming Languages Course*, John Barr, Laurie A. Smith King, proceedings of the 10th annual Eastern Small College Computing Conference, October 21-22, 1994, St. John Fisher College, Rochester, New York.

*Object Oriented Programming: How to "Scale Up" CS1*, Stuart Hirshfield, Owen Astrachan, John Barr, Karen Donnelly, David Levine, Mark McGinn. Panel at the 25th Annual SIGCSE Technical Symposium, 6-12 March 1994, Phoenix, Arizona.

## References:

Laurie Smith King  
Assistant Professor  
Department of Mathematics and Computer Science  
The College of the Holy Cross  
One College Street  
Worcester, MA 01610  
(508) 793-2248  
la@mathcs.holycross.edu

Chuck Leska  
Associate Professor  
Department of Computer Science

221 Copley Science Center  
Randolph-Macon College  
Ashland, VA 23005  
(804) 752-3158  
cleska@rmc.edu

Michael Goldweber  
Professor  
Department of Computer Science  
Xavier University  
3800 Victory Parkway  
Cincinnati, OH 45207-4441  
(513) 745-3936  
mikeyg@cs.xu.edu

## **Personal**

**Citizenship:** US

**Status:** Married to Susan E. Barr since 1981,  
two children (Gwendolyn and Gabriel)

**Age:** born 10 November 1956, Kindly AFB, Bermuda.

**Hobbies:** running, classical guitar, church activities