

Suzanne Prem Balik

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Education

NORTH CAROLINA STATE UNIVERSITY

Ph.D. in Computer Science

in progress

Master of Computer Science

May 2004

GROVE CITY COLLEGE

B.S., summa cum laude, with High Honors in Chemistry

May 1976

Experience

NORTH CAROLINA STATE UNIVERSITY

Department of Computer Science

Raleigh, NC

Lecturer

Aug 2009–present

Adjunct Lecturer

May 2004–May 2009

Visiting Lecturer

Aug 2001–May 2003

Adjunct Lecturer

May 2000–Aug 2001

- CSC 116 Introduction to Computing - Java
(Fall '01, Spring '02–two sections, Fall '02, Spring '03–four sections, Fall '09–two sections, Spring '10–two sections, Fall '10–three sections, Spring '11–three sections)
- CSC 200 Introduction to Computers and Their Uses
(Fall '09, Spring '10)
- CSC 210/214 Programming Concepts - C++
(Sum '00, Fall '00–two sections, Spring '01, Sum '01)
- CSC 216 Programming Concepts - Java
(Fall '01–two sections, Spring '01, Fall '02–two sections, Spring '05, Fall '05, Spring '06)
- CSC 226 Discrete Mathematics for Computer Scientists
(Fall '05)
- CSC 316 Data Structures for Computer Scientists
(Fall '07)
- CSC 333 Automata, Grammars, and Computability
(Sum '04, Fall '04, Sum '05, Spring '06, Sum '06, Sum '07, Sum '08, Spring '09)

Coordinating Teaching Assistant

Dec 1997–May 2000

- Co-authored *The CSC 214 Guide: Programming Concepts in C++*.
- Managed teaching assistants and grading for multi-section course.
- Developed programming assignments and grading scripts.

SAS INSTITUTE, INC.

Cary, NC

Graduate Assistant - Accessibility Developer

Jan 2008– Jan 2009

- Implemented accessibility enhancements to Java client interface for data mining application using Eclipse platform and CVS version control system.

RAVENS CROFT SCHOOL

Raleigh, NC

AP Computer Science Teacher

Aug 2003–May 2005

DIAMOND SHAMROCK CORPORATION

T.R. Evans Research Center

Painesville, OH

Senior Analyst/Programmer

Oct 1979–Nov 1981

Computer Engineer

Dec 1977–Sep 1979

- Designed and implemented chemical and business FORTRAN applications.
- Supervised project development teams.

PPG INDUSTRIES

Coatings and Resins Research Center

Allison Park, PA

Research Chemist

May 1976–Nov 1977

Publications

Balik, S. P., Combinatorial Graph Creation and Navigation for Blind People, NCSU-CSC Technical Report 2011-1.

Stallmann, M., Balik, S., Rodman, R., Bahram, S., Grace, M., High, S., "ProofChecker: An Accessible Environment for Automata Theory Correctness Proofs", *ACM Technical Symposium on Computer Science Education*, ITiCSE 2007, pp. 48-52.

Katira, N., Williams, L., Wiebe, E., Miller, C., Balik, S., Gehringer, Ed, "On Understanding Compatibility of Student Pair Programmers", *ACM Technical Symposium on Computer Science Education*, SIGCSE 2004, pp. 7-11.

Srikanth, H., Williams, L., Wiebe, E., Miller, C., Balik, S., *On Pair Rotation in the Computer Science Course*, Conference on Software Engineering Education and Training 2004, pp. 144-149.

Wiebe, E., Williams, L., Petlick, J., Nagappan, N., Balik, S., Miller, C., Ferzli, M. "Pair Programming in Introductory Programming Labs", *American Society for Engineering Education (ASEE)* 2003.

Nagappan, N., Williams, L., Wiebe, E., Miller, C., Balik, S., Ferzli, M., Petlick, M., "Pair Learning: With an Eye Toward Future Success", *Extreme Programming/Agile Universe* 2003.

Nagappan, N., Williams, L., Ferzli, M., Wiebe, E., Yang, K., Miller, C., Balik, S., "Improving the CS1 Experience with Pair Programming", *ACM Technical Symposium on Computer Science Education*, SIGCSE 2003, pp. 359-362.

Shaw, J.T., Prem, S., "Fused s-Triazino Heterocycles. VI. 1,9,9b-Triazaphenalenenes", *Journal of Heterocyclic Chemistry*, 14, 671 (1977).

Shaw, J.T., Balik, C.M., Holodnak, J.L., Prem, S., "Fused s-Triazino Heterocycles. IV. Electrophilic Aromatic Substitution Reactions of Some 1,3,4,6,9b-Pentaazaphenalenenes", *Journal of Heterocyclic Chemistry*, 13, 127 (1976).

Presentations

"Laboratory Data Automation". *American Chemical Society, Regional Meeting*, Pittsburgh, PA, November 1980.

"Savings Realized Through Energy Monitoring in a Chlorine Production Facility". *Symposium on Applications of Digital Electronics in Mechanical Systems*, Battelle's Columbus Laboratories, Columbus, OH, April 1980.

Service

NORTH CAROLINA STATE UNIVERSITY

Department of Computer Science

Raleigh, NC

Computer Science Graduate Student Association (CSGSA)

Vice-president

May 2006–Apr 2007

Women in Computer Science (WICS)

Founding Member

Jan 2002–present

Organizations

Association for Computing Machinery (ACM)

Nov 2000–present

Special Interest Groups: SIGACT, SIGACCESS, SIGCHI, SIGCSE

Honor Societies

Upsilon Pi Epsilon International Honor Society
for the Computing and Information Disciplines

Inducted, Sep 2000

Phi Kappa Phi Honor Society

Inducted, Oct 2003