

Nancy Jean McCracken: Syracuse University

Northeast Parallel Architecture Center (NPAC)
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Education

Earlham College, Richmond, Indiana 1967-1971 B.A. Mathematics
Syracuse University, Syracuse, New York 1971-1979
Ph.D. Computer and Information Science

Employment

Associate Professor, Syracuse University, School of Computer and Information Science (CIS), September 1982 - September 1984.

Senior Research Associate, CIS, September 1984 - July 1987.

Research in programming language semantics and the typechecking of polymorphic languages. Taught courses in programming languages, semantics and compilers.

Research Consultant, Northeast Parallel Architectures Center (NPAC) at Syracuse University, July 1987 - September 1989.

Research on parallel languages and algorithms. Taught programming workshops on the CM2, the Alliant FX80 and the Encore Multimax. Consulted with scientific researchers on parallel computing.

Manager of Research Consulting, NPAC, September 1989 - March 1992.

Managed a group of seven Ph.D. level consultants working with business programmers and academic researchers in parallel computing.

Senior Research Scientist, NPAC, March 1992 - present.

Director of Education Programs. Develop certificate programs in computational science. Develop course materials and teach courses in parallel computing and information technologies. Develop distance education infrastructure. (1997-present)

Co-Director and Training Coordinator for the NSF REU site program (1990-95).

Affiliated Faculty, CIS, June 1987 - present.

Chairman of Computational Science Curriculum Committee.

Designed new courses, minors, and a master's degree in computational science.

Selected Papers

Synchronous Learning at a Distance: Experiences with Tango, David E. Bernholdt, Geoffrey C. Fox, Roman Markowski, Nancy J. McCracken, Marek Podgorny, Thomas R. Scavo, Qutaibah Malluhi, Debasis Mitra, Supercomputing '98, December 1998.

<http://www.npac.syr.edu/projects/training/Papers/sc98/>

Recent Training Workshops

Web/Database Course at ARL, Maryland, February 10-12,1998, a 3-day workshop taught by Dr. Nancy McCracken and assisted by Dr. Chao-wei Ou.

<http://www.npac.syr.edu/projects/training/ARLdb/>

Java for Scientific Computing, a 3-day workshop at CEWES, Vicksburg, MS, May 19-21,1998. <http://www.npac.syr.edu/projects/training/CEWESjava98/>

Integration of Web Database and Object Technologies, a 1-day tutorial at the ITEA Workshop, July 13, 1998, taught by Dr. Geoffrey Fox and assisted by Dr. Nancy McCracken. <http://www.npac.syr.edu/projects/training/ITEA98/>

Java for Scientific Computing, a 3-day workshop at NAVO, John Stennis Space Center, MS, September 23-25,1998. <http://www.npac.syr.edu/projects/training/NAVOjava98/>

Recent Academic Courses

CPS406/606 Computational Methods for Distributed Information Systems, aka Programming for the Web, at Syracuse University, Fall 1998-99. Topics include using Java for distributed web-based applications.

<http://www.npac.syr.edu/projects/cps606fall98/>

CPS615 Computational Science for Simulation Applications, with Dr. Geoffrey Fox, a distance education course at Jackson State University, Fall 1998.

<http://www.npac.syr.edu/projects/jsufall98/>

CPS616 Computational Science for Information Applications, aka Web Software Technologies, at Syracuse University and as a distance education course at Jackson State University, Mississippi State University and Clark-Atlanta University. Topics include web/database interfaces, CORBA, 3D modelling, and XML.

<http://www.npac.syr.edu/projects/cps616spring99/> and

<http://www.npac.syr.edu/projects/jsuspring99/>.