

Scott R. Pope

North Carolina State University
Department of Mathematics
Campus Box 8205
Raleigh, NC 27695-8205
919/515-2039

scott.pope@gmail.com
srpope@ncsu.edu
<http://www4.ncsu.edu/~srpope/>
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- EDUCATION**
- ◇ **North Carolina State University**, Raleigh, NC
 - Ph.D. in Applied Mathematics, GPA 4.0, expected December 2008
 - Thesis advisor: C.T. Kelley
 - Thesis title: *Parameter Estimation with a Blood Flow, Blood Pressure Model*
 - ◇ **University of Missouri-Rolla**, Rolla, MO
 - M.S. in Applied Mathematics, GPA 3.89, May 2001
 - B.S. in Computer Science, GPA 3.69 May 2000
 - B.S. in Applied Mathematics, GPA 3.69 May 1999
- RESEARCH INTERESTS** Non-linear optimization, numerical analysis, parameter estimation, operations research, linear algebra.
- TALKS**
- ◇ Society of Industrial and Applied Mathematics Optimization Conference, Boston, Massachusetts, May, 2008.
 - ◇ Copper Mountain Conference on Iterative Methods, Copper Mountain, Colorado, April, 2008.
 - ◇ American Mathematical Society/Mathematics Association of America Joint Meeting, San Antonio, Texas, January 2006.
 - ◇ Applications of Computer Algebra, Nara, Japan, August 2005.
- PUBLICATIONS**
- ◇ S. Pope, A. Szanto. Nearest Multivariate System with Given Root Multiplicities, *Journal of Symbolic Computation*, to appear.
 - ◇ S. Pope, L. Ellwein, C. Zapata, V. Novak, C. Kelley, M. Olufsen. Estimation and Identification of Parameters in a Lumped Cerebrovascular Model, submitted 2008.
- WORK EXPERIENCE**
- ◇ **Graduate Research Assistant**, North Carolina State University, Jan. 2004 - present
Advisor: C.T. Kelley
 - ◇ **Research Assistant**, Beth Israel Deaconess Hospital - Boston, Massachusetts, summer 2007
Advisor: Vera Novak
 - ◇ **Teaching Assistant**, North Carolina State University, Fall 2003, Summer 2004, Summer 2005, Fall 2006
 - First semester calculus, Summer 2004, Summer 2005 and Fall 2006
 - ◇ **Teaching Assistant**, University of Missouri-Rolla, Fall 1999 - Spring 2001, Summer 2000
 - First semester calculus, Fall 1999
 - Second semester calculus, Spring 2000
 - Third semester calculus, Summer 2000, Fall 2000
 - Ordinary Differential Equations, Spring 2001
 - ◇ **Software Engineer** Unigraphics Solutions, St. Louis, Missouri, June 2001 - August 2003
 - Worked primarily with C and C++ code.
 - ◇ **Software Consultant** Empower Trainers and Consultants, Overland Park, Kansas, June 1997 - January 2000
 - Worked with clients in the finance, law, and management industries.
- PROGRAMMING EXPERIENCE** C, C++, Visual Basic, Perl, Python, SQL, MPI, Java
- PROFESSIONAL SOCIETIES** SIAM, INFORMS