



## Rex L. Page

### RESEARCH INTERESTS

Equation-based programming, functional programming, software verification, engineering software.

### BIOGRAPHY

Dr. Rex L. Page is a professor in the School of Computer Science at the University of Oklahoma. He earned his baccalaureate at Stanford University and his doctorate at the University of California at San Diego, both in mathematics. He started his career at Colorado State University, where he spent twelve years and rose to the level of Professor of Computer Science. Most of his research during this period focused on massively parallel processing, especially architectures for supporting parallel evaluation of equation-based programs. This work was supported by the National Science Foundation and by research grants from industry. Dr. Page left Colorado State to take a position leading a research group at Amoco, where he spent ten years pursuing his interest in functional programming for parallel processors (his group purchased Ncube serial number 2) and leading projects in workstation applications, local area networks, and supercomputer software. During this period, Dr. Page also contributed to the development of international standards for Fortran and participated in the standards activities of the High Performance Fortran Forum. He also spent a couple years with Amoco in Houston helping specify the software architecture for a large client/server system integrating many company operations. In 1994, Dr. Page joined the faculty the School of Computer Science, where he has been since that time. He served as Director until 1997, when he took a two-year leave of absence to work with a Silicon Valley startup specializing in embedded computing systems. In 1999, he returned to OU in his current position. His current work aims to make mechanized logic systems accessible to practicing software engineers. His forty years of experience in software development have convinced him that conventional computer programming is a monumental waste of human energy.

### Education

PhD, Mathematics  
University of California, San Diego, 1966  
BA, Mathematics  
Stanford University, 1970

### Experience

Professor  
University of Oklahoma  
Director and Professor  
University of Oklahoma  
Research Leader  
Amoco  
Professor  
Colorado State University

### AWARDS, HONORS AND PROFESSIONAL ACTIVITIES

Program Chair, Trends in Functional Programming, 2010.

General Chair, Erlang Workshop of ICFP 2002.

## SELECTED PROJECTS

- NSF, “Modular ACL2,” Collaborative project with Matthias Felleisen, Northeastern University, 2010-2013.
- NSF, “Integrating Mechanized Logic into the Software Engineering Curriculum,” Collaborative project with Matthias Felleisen, Northeastern University, 2005-2009.
- NSF, “Beseme Project: Formal Methods Education and Programming Effectiveness,” 2000-2003.

## SELECTED PUBLICATIONS

- “Engineering Software Correctness,” *Journal of Functional Programming*, Vol. 17, No. 6, pp. 675-686, 2007.
- “Functional Programming and Theorem Proving for Undergraduates: A Progress Report,” *FDPE 2008*, pp. 21-29, Victoria, B.C., Canada, Sept. 21, 2008 (with C. Eastlund and M. Felleisen).
- “ACL2 in DrScheme,” *Proceedings of the Sixth International Workshop on the ACL2 Theorem Prover and its Applications*, pp. 107-116, Seattle, WA, Aug. 15-16, 2006 (with D. Vaillancourt and M. Felleisen).
- “Software is Discrete Mathematics,” *Proceedings of the Eighth International Conference on Functional Programming*, pp. 79-86 Uppsala, Sweden, Aug. 25-27, 2003.
- “Functional Programming ... and where you can put it,” *ACM SIGPLAN Notices*, Vol. 36, No. 9, pp. 19-24, 2001.