

Edward “Ted” James Doyle

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EDUCATION

Doctor of Philosophy, Computer Science, December 2008

School of Computing, Clemson University, Clemson, SC

Adviser: D. E. “Steve” Stevenson, PhD

Dissertation Title: Two Categories of Refutation Decision Procedures for Classical and Intuitionistic Propositional Logic

Master of Computer Science, December 1989

Computer Science Department, University of Minnesota, Minneapolis, MN

Adviser: Patrick Powell, PhD

Thesis Title: Suffix Tree Applications in DNA Sequencing

Bachelor of Computer Science, March 1988

Computer Science Department, University of Minnesota, Minneapolis, MN

PUBLICATIONS

- “A Comparison of Theorem Proving Procedures”, Edward Doyle, Proceedings of the ACM Southeast Conference, pages 230-234, March 7-8, 2003.
- “2-Split Graphs”, Edward Doyle and David Jacobs, *Congressus Numerantium* 142, pages 65-73, 2000.
- “CORBA Wrap Interface”, Edward Doyle, Proceedings of the ACM Southeast Conference, April 15-18, 1999 (published on CD).
- “Aneuploidy and Inbreeding Depression in Random Mating and Self-fertilizing Autotetraploid Populations”, Gregory G. Doyle, *Theoretical and Applied Genetics* 72, pages 799-806, 1986. This paper is based on a computer program that I wrote to the author’s specifications.

PRESENTATIONS

- “Automatic Theorem Proving”, Clemson University, Department of Computer Science colloquium, Oct. 10, 2003.
- “A Comparison of Theorem Proving Procedures”, ACM Southeast Regional Conference, Savannah, GA, March 8, 2003.
- “2-Split Graphs”, Thirty-First Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Boca Raton, FL, March 13-17, 2000.
- “2-Split Graphs”, Fifth North Carolina Mini-Conference on Graph Theory, Combinatorics and Computing, Appalachian State University, Boone, NC, April 14, 2000.
- “CORBA Wrap Interface”, ACM Southeast Regional Conference, Mobile, Alabama, April 16, 1999.

TEACHING AND RESEARCH EXPERIENCE

ITT-Technical Institute, Greenville, SC
School of Information Technology
Adjunct Instructor

September 2005 to March 2006

- Taught courses in C, C++, Java, and Unix.

Clemson University, Clemson, SC
Department of Computer Science
Graduate Research Assistant

August 2002 to August 2003

- Explored adding new primitives to GNU Forth to support computation in a distributed heterogeneous computer network.
- Developed course materials for workshops to help college professors more effectively use computers in the classroom.

Education Department
Graduate Fellowship NSF grant GK-12

July 2001 to July 2002

- Reorganized science kits (classroom materials) to improve ease of use by teachers in middle school classrooms.
- Assisted in a study comparing the learning performance of middle school students in science classes. This study compared two teaching methods, one using hands-on kits and the other using the traditional textbook and lecture approach.

Department of Computer Science
Graduate Teaching Assistant

July 1999 to June 2001

- Taught computer science labs for two courses: data structures and SPARC assembly language.
- Taught C programming courses for computer science majors and non-majors.

Graduate Research Assistant

January 1998 to December 1998

- Developed method that permitted preexisting programs using exclusively standard input/output to be executed across network using CORBA architecture.

Graduate Teaching Assistant

August 1996 to December 1997

- Taught labs for SPARC assembly and data structures in the Computer Science Department.
- Coordinated fifteen Teaching Assistants in 62 lab sections for a basic computer literacy course.
- Held regular office hours to assist students with course work.

Limestone College, Gaffney, SC

Department of Computer Science and Information Technology

Adjunct Professor

February 1996 to April 1996

- Taught course in basic computer skills, database, word processing and spreadsheets.

University of Minnesota, Minneapolis, MN

Department of Computer Science

Research Assistant

September 1989 to December 1989

- Implemented an efficient algorithm to search a very long string for the shortest unique and longest common sub-strings. The immediate application for DNA base sequence analysis.

Graduate Teaching Assistant

1988 to 1989

- Held regular office hours to assist students with course work. Graded tests and homework for various courses.

Department of Management Information Science

Programmer

June 1987 to August 1987

- Implemented programs for the Computer Assisted Meeting project. These programs allowed multiple users to interact in a UNIX environment.

University of Missouri, Columbia, MO

Department of Agronomy

Programmer

January 1984 to August 1984

- Developed utility programs in BASIC, C, 6809 and 68000.
- Designed and implemented a program that automated computationally intensive genetic population model. This program was the basis of a journal article (see publications section).
- Designed and implemented a user friendly program that allowed novices to format output from a database ranging in complexity from mailing labels to form letters.
- Developed a program that streamed-lined backup procedure for UNIX-like operating system hard drive. It replaced a crude, slow and unreliable program.

BUSINESS EMPLOYMENT EXPERIENCE

QS/1 Data Systems, Spartanburg, SC

Systems Programmer

April 1994 to December 1995

- Created, revised and maintained networking code for pharmaceutical claim routing system.
- Heavily revised and expanded a program in C that allowed claims on X.25 network to be transmitted over SNA link for adjudication. This saved the company re-routing fees on over a million claims per month.

International Business Machines, Kingston and Poughkeepsie, NY

Product Engineer and Programmer

January 1990 to May 1993

- Managed technical resolution of field identified problems for IBM mainframe computers.
- Designed and implemented problem tracking system that allowed management to measure and improve field problem response time by over 95%.
- Developed and maintained processor controller micro-code for IBM mainframe computers.

COMMITTEE WORK AND LEADERSHIP

Clemson University Graduate Student Government

- Vice President, Graduate Student Government at Clemson University 1998-1999
 - Presiding Officer at Graduate Student Government Senate meetings
 - Assisted with major revision of Graduate Student Government Constitution
- Committee Member, Graduate Advisory Committee 1997-1998
- Senator, Graduate Student Government 1997-1998
- Committee Member, Clemson Area Transit System 1998-2000
- Committee Member, Computer Advisory Committee 1998-1999

Department of Computer Science

- Graduate student representative to Computer Science Department Chair Search Committee, March 1997 - May 1998

PROFESSIONAL MEMBERSHIPS

- Association for Computing Machinery 1998 to Present
- Association for Automated Reasoning 2003 to Present

HONOR SOCIETIES

Alpha Epsilon Lambda, Graduate-Professional Student Honor Society – Inducted April 1997

- Membership Chair for Alpha Epsilon Lambda (1999-2000)
- Webmaster 1998

Phi Kappa Phi, General Honor Society – Inducted Spring 2003

Upsilon Pi Epsilon, Computer Science Honor Society – Inducted April 1997

- Webmaster 1997-1998

CONFERENCES ATTENDED

- International Joint Conference on Artificial Intelligence, Seattle, WA, August 17-20, 2006
- ACM Southeast Regional Conference, Savannah, GA, March 7-8, 2003
- Foundations 2002 (A Verification and Validation Workshop) Oct 22-23, 2002, Laurel, Ma
- Proofs-as-Programs Workshop (June 24 July 5, 2002), Eugene, OR
- National Science Teachers Meeting, San Diego, March 27-30, 2002
- Thirty-Second Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Baton Rouge, LA (February 26- March 2, 2001)
- Appalachian State University, Boone, NC mini-conference (April 14, 2000)
- Thirty-First Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Boca Raton, FL, March 13-17, 2000
- ACM Southeast Regional Conference, Mobile, Alabama, April 15-18, 1999
- Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Boca Raton, FL, March 8-12, 1999

OTHER ACTIVITIES

Second Degree Black Belt in Tae Kwon Do Aug 2005 (training 1996-2006)

Clemson Tae Kwon Do Offices

- Secretary (1997-1998)
- Treasurer (2001-2002 and 2004-2005)
- Webmaster (1997-2000)
- Assisted in a major revision of the constitution 2002

OMARC (Overlook Mountain Amateur Radio Club) in Ulster County, New York

- Vice President 1992
- Field Day Coordinator 1992

Treasurer Gopher Amateur Radio Club, University Of Minnesota, 1988-1989

President of the Chess Club at the University of Minnesota Twin Cities, 1986