

Patrick Eric Carlson

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Education:

Undergraduate:
Simpson College, Indianola Iowa
Bachelor of Arts Degree, Graduated May 2008
Majors: Computer Science and Psychology
Cumulative GPA: 3.715/4.0

Currently a Graduate Student:
Iowa State University, Ames Iowa
Computer Science PhD (looking to switch focus to HCI)

Research Projects:

- Genetic Algorithms Fall 2004
 - Researched improving the performance of genetic algorithms for the “traveling salesman problem”
- Origin of Human Cooperation and Altruism Fall 2005 – Fall 2006
 - Simulated the evolution of cooperation/altruism using game theory techniques and genetic algorithms. Presented work at Argonne National Laboratory
- Research Experience for Undergraduates (REU) Spring 2006 – Fall 2007
 - Learned the basics of machine learning at the University of New Mexico and worked on applying this to identifying malware and improving the routing of packets in a dynamic network. Sponsored by the National Science Foundation.
- Usability and Appeal of the Linux Desktop (Psychology Capstone) Spring 2007 – Fall 2008
 - Constructed and performed an experiment empirically contrasting usability and appeal of a 2D versus 3D Linux desktop. Presented poster at Midwest Psychology Association.

Work Experience:

Simpson College Information Services Department
Student Technician Nov 2005 – May 2006

- Helped students and faculty connect to the Internet
- Troubleshoot network issues

Mounds Park Academy (MPA) High School Technology Department
Computer Technician Summer 2002 – 2005, 2008

- Conducted laptop repair and software setup for 60 freshman students
- Every high school student receives a laptop computer for papers and research
- Imaged and configured multiple computer labs

Iowa State University
Teaching Assistant – ComS 207 Fall 2008

- Graded assignments, assisted professor, created assignments, and tutored students

Teaching Assistant – ComS 309 Spring 2009 (currently)

Activities:

- Simpson College Math Club Fall 2006 to Spring 2008
- Received Honorable Mention in the Mathematical Contest in Modeling, 2006, 2007, 2008
- Simpson College Computer Club, 2003 to 2008
- Started RivetCode Limited Liability Corporation, Summer 2005
 - Develop open source web-based software using PHP and MySQL
- Simpson College Tennis Team, Spring 2004

- Simpson College Choir, Fall 2003
- Volunteered at local Afton Historical Society to catalog items in computer database, Summer 2002
- Nominated and attended the Young Leaders in Technology Summit in Austin Texas, July 2001

Honors:

Outstanding Senior in Computer Science (Simpson College) – May 2008
Floyd S. Doft Memorial Scholarship (Simpson College), 2007 – 2008 school year
Psi Chi National Honor Society in Psychology, March 2007
Simpson College Dean's List, Spring 2005, Fall 2006, Fall 2007
Simpson College Academic Honor Scholarship, Fall 2003 to Spring 2008
Certificate of Achievement from MPA Technology Department, December 2000