

Dominic Randolph Jones

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Education

Doctor of Philosophy, Computer Science, University of Utah, 2008.

Bachelor of Science, Computer Science, University of Tulsa, 1997, 3.929 gpa.
Minor in Applied Mathematics.

Professional Experience

Operations Research Analyst, FG-1515-13

2004-present

Federal Aviation Administration

Responsible for aviation safety analysis for the certificate management teams managing the SkyWest, Frontier, Lynx, Great Lakes, and Corporate Air air carrier certificates. Duties include analysis, working with a quality management system, and software/database development.

Graduate Research Assistant

Fall 2003

School of Computing, University of Utah

Spring 2003

Defined new research program, developed learning algorithms using probabilistic model, and implemented system for extracting correlated events from summaries in the National Transportation Safety Board aviation accident and incident database. Process included C++ programming and web data handling application development, and used Sun, Linux, and BSD development environments.

Summer 2002

Spring 2002

Fall 2001

Summer 2001

Instructor

Fall 2000

School of Computing, University of Utah

Summer 1999

CP SC 1021: Introduction to Programming in Java

Performed all teaching duties, including lectures, exam and homework preparation, grading, and management of teaching assistants. Worked in Sun and Windows environments.

Graduate Teaching Assistant

Fall 2002

School of Computing, University of Utah

Spring 2001

CP SC 5300/6300: Artificial Intelligence (Fall 2002)

Fall 1999

CP SC 2020: Introduction to Computer Science II (Spring 2001)

CP SC 5350/6350: Machine Learning (Fall 1999 and Spring 2001)

Assisted in delivery of courses via lab section leadership, grading, and one-on-one consultations with students. Used C++, Java, and Matlab.

Volunteer Work

Search and Rescue Volunteer Utah Wing, Civil Air Patrol Have served as flight crew member, wing/squadron staff officer, and squadron deputy commander.	2002-present
Fencing Coach University of Utah	2002-2003

Awards and Honors

1997 *Department of Defense National Defense Science and Engineering Graduate (NDSEG) Fellowship*, one of 90 awarded nationally.

1997 *National Science Foundation Graduate Fellowship*, declined in favor of NDSEG Fellowship

1995 *Barry M. Goldwater Scholarship*, one of 282 awarded nationally.

1996 *Jess Choteau Top Ten Outstanding Senior*, University of Tulsa.

Phi Beta Kappa, Tau Beta Pi, Phi Kappa Phi

Publications

Dominic Jones, *Mining Events from Aviation Safety Data*, Ph.D. Dissertation, 2008.

Dominic Jones and Cynthia Thompson, "Identifying events using similarity and context," in *Proceedings of the Conference on Computational Natural Language Learning*, Edmonton, Canada, pp. 135-141, 2003.

Elizabeth Odekirk, Dominic Jones, and Peter Jensen, "Three semesters of CS0 using Java: assignments and experiences," in *Proceedings of the Fifth Annual SIGCSE/SIGCUE Conference on Innovation and Technology in Computer Science Education*, Helsinki, Finland, pp. 144-147, 2000.

Dominic Jones, Benjamin Geffen, and Clint Engle, "A tool for detecting inference threats in databases," in *Proceedings of the Tenth Mid-America Symposium on Emerging Computer Technologies*, Norman, Oklahoma, pp. 73-79, 1996.

Surath Rath, Dominic Jones, John Hale, and Sujeet Sheno, "A tool for inference detection and knowledge discovery in databases," in *Database Security IX: Status and Prospects*, D. Spooner et al. (editors), Chapman and Hall, London, U.K., pp. 317-332, 1996.

References available upon request.