

Alan L. Ritter

CONTACT INFORMATION

E-mail: aritter@cs.washington.edu
WWW: <http://www.cs.washington.edu/homes/aritter/>

EDUCATION

University of Washington, Seattle, WA USA

Pursuing Ph.D. in Computer Science & Engineering

- Adviser: Oren Etzioni

Western Washington University, Bellingham, WA USA

M.S. Computer Science, December 2006

- Adviser: J. Michael Meehan
- Overall GPA: 4.00

B.S., Computer Science, December 2005

- Minor in Mathematics
- Overall GPA: 4.00

PUBLICATIONS

Alan L. Ritter, James W. Hearne, Philip A. Nelson “Distributional Word Clustering in Parallel” ISCA PDCS 2006

J. Michael Meehan, Alan L. Ritter “Machine Learning Approach to Tuning Distributed Operating System Load Balancing Algorithms” ISCA PDCS 2006

J. Michael Meehan, Alan L. Ritter “Using a Genetic Algorithm to Tune Parameters of Modifications of the openMosix Load Balancing Algorithm” MFCSIT 2006

Alan L. Ritter “NDIS Network Driver”, Dr. Dobb’s Journal January 2006

PRESENTATIONS, SEMINARS AND

Alan L. Ritter “Profiling NAVDAS” Naval Research Laboratory Monterey, CA August 2006

TRAINING CLASSES

Alan L. Ritter “Profiling Fortran/MPI programs using TAU on the NRL Linux cluster” Naval Research Laboratory Monterey, CA August 2006

Alan L. Ritter, J. Michael Meehan “Using a Genetic Algorithm to Tune openMosix Load Balancing Parameters” Linuxfest Northwest 2006

PROFESSIONAL EXPERIENCE

Turing Center, University of Washington, Seattle WA USA

Research Assistant

September 2007 - Present

Worked independently on several small-scale research projects

Automatically solving analogy problems using TEXTRUNNER

- <http://turingc.cs.washington.edu:7125/TextRunner/cgi-bin/analogy.pl>

Currently investigating automatic discovery of conflicting statements on the web:

- <http://turingc.cs.washington.edu:1234/conflict.pl?pred=invented&n=100000>

Anaphora resolution in Wikipedia

Software Engineer

April 2007 - September 2007

Software Engineer in support of Turing Center scientists. Implemented updates and maintained TEXTRUNNER, an Open IE based search engine. Developed a web-scale hypernym extractor.

Microsoft, Redmond WA USA

Software Design Engineer
Windows Media DRM group.

January 2007 - March 2007

Western Washington University, Bellingham, WA USA

Teaching Assistant
Taught an introductory programming lab.
Supervisor: Dr. Garry L. Eerkes

March 2006 - June 2006

Grader
Graded programming assignments for a UNIX software development class.
Supervisor: Dr. Philip A. Nelson

January - March and September - December 2006

Naval Research Laboratory, Monterey, CA USA

Summer Research Intern
Used TAU (Tuning and Analysis Utilities) to instrument, profile, analyze, and improve scalability of research and operational NRL Data Assimilation Fortran/MPI code. Taught a class on automatic instrumentation of parallel programs for NRL scientists. Presented a Seminar on scalability enhancements to NAVDAS.
Supervisor: Dr. William F. Campbell

June 2006 - August 2006

The NetBSD Project

Google "Summer of Code" Grant
Ported FreeBSD's NDIS Compatibility Layer to NetBSD.
Mentor: Dr. Philip A. Nelson

June 2005 - August 2005

HONORS AND
AWARDS

WWU Outstanding Graduating Senior in Computer Science for 2006
Graduated Magna Cum Laude
Departmental Tuition Waiver (2003-2004)
ASEE/ONR NREIP Summer Research Internship
Golden Key International Honor Society
Phi Kappa Phi Honor Society

GRANTS

Google *Summer of Code* Grant
Ross Travel Grant

SELECTED
PROGRAMMING
EXPERIENCE

- Compiler for a block structured language
- Lisp Interpreter
- UNIX shell
- NetBSD/Windows NT Device Drivers (PCI-DAS08)
- 3D graphics pipeline
- Ray Tracer
- Fractal Plants Using L-Systems

SKILLS

- Languages: C, C++, C#, Java, Perl, bash, Lisp, R, x86 assembly, Fortran, etc...
- APIs: MPI, POSIX, Win32, .NET, Lucene, etc...