

Andrew T. Smith

Computer Science and Engineering
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EDUCATION

University of California, Berkeley. 1998 – 2002
B.A. in Computer Science with a minor in Music. GPA: 3.8

University of California, San Diego. 2002 - Present.
Current Ph.D. candidate in the Department of Computer Science and Engineering, studying Artificial Intelligence. Current GPA: 3.8
Relevant graduate coursework: Neural Networks/Neural Computation, Computer Vision, Cognitive Science Seminar, Machine Learning Seminars, Unsupervised Learning, Statistical Machine Learning, Graphical Probability Models (Bayes Nets), Algorithm Design and Analysis, Computability and Complexity.

RESEARCH, WORK EXPERIENCE

Research Assistant **Computer Science and Engineering Dept.**
UCSD **Sep. 2003 – Present**
I research machine learning under sample selection bias with Professor Charles Elkan.

Scientist **Fair Isaac Corp.**
San Diego, CA. **Jun. 2005 – Present**
Duties are in the field of natural language processing (NLP) research with a generative approach to language understanding using biologically inspired computational models.

Mathematical Sciences Intern **IBM Research**
T.J. Watson Research Center, Yorktown NY. **Jun. 2004 – Sep. 2004.**
Duties included engineering data mining solutions to forecast demand of PC components (hard-drives, monitors, etc.) for IBM's PC sales division (i.e. timeseries modeling/prediction) and comparing the performance to that of an existing forecasting system.

Analytic Science Intern **Fair Isaac Corp.**
San Diego, CA. **Jun. 2003 – Sep. 2003.**
Duties included implementing and using statistical models to classify physician specialty based on the history of submitted insurance claims (for use in fraud detection) and comparing the results to a legacy logistic-regression model. Techniques used included PCA, ICA, Naive Bayes and Gaussian mixture models, C4.5 decision trees, Support Vector Machines (SVM-LIGHT), Neural Networks, and Radial Basis Function (RBF) networks, as well as boosting and clustering algorithms.

Research Assistant **UC Berkeley, Mech. Eng. Dept.**
Berkeley, CA. **Jan. 2001 – Aug. 2002**
Duties included designing experiments and programming software to test bimanual continuous input (two mice – one per hand) interfaces in CAD environments.

Software Engineering Intern **Microsoft Corp.**
Mountain View, CA. **Jul. 2000 – Sep. 2000**
Duties included designing and implementing a Hotmail interface for off-line PDAs.

SKILLS

Programming Languages and APIs: C/C++, JAVA, MATLAB, R, LISP, Scheme, SQL (DB2), BASIC, PASCAL, WIN32 API.
Operating Systems and Software: Unix, Linux, Windows, MS Office, MS Visual Studio, DB2, digital logic CAD and Xilinx prototyping chips.

HONORS AND ACCOMPLISHMENTS

Received Academic Honors at UCB every semester from May 1999 to May 2002.
Cellist in UC Berkeley Symphony Orchestra for two years.
Member of Phi Beta Kappa Society.