

William M. Lam

CONTACT INFORMATION	(Address available upon request)	<i>voice:</i> (626) 344-9526 <i>e-mail:</i> willmlam@ics.uci.edu www.ics.uci.edu/~willmlam
RESEARCH INTERESTS	Probabilistic Graphical Models, Machine Learning, Artificial Intelligence	
EDUCATION	University of California, Irvine , Irvine, CA, USA PhD, Computer Science (expected 2015) University of California, Riverside , Riverside, CA, USA BS, Computer Science, <i>magna cum laude</i> (June 2010) Overall GPA: 3.927, Major GPA: 3.969	
AWARDS & HONORS	Bren ICS Chair's Fellowship Academic Excellence Award (2010, Computer Science) Dean's Academic Distinction Award (2007-2010)	
PROFESSIONAL ORGANIZATIONS	Member of Tau Beta Pi (2008-present) Member of ACM (2007-present)	
EXPERIENCE	University of California, Riverside , Riverside, CA, USA <i>Undergraduate Research Assistant with Prof. Christian Shelton</i> January 2009 to September 2010 <ul style="list-style-type: none">• Worked in Riverside Lab for Artificial Intelligence Research (R-LAIR) on the structure learning components of the Continuous Time Bayesian Network Reasoning and Learning Engine.• Implemented mean field approximate inference method for an upcoming update of the Continuous Time Bayesian Network Reasoning and Learning Engine. <i>Student Editorial Board Member for UCR UGRJ</i> April 2010 to June 2010 <ul style="list-style-type: none">• Served as a primary reader for two papers and a secondary reader for three other papers of various disciplines submitted for review to the UCR Undergraduate Research Journal (UGRJ).• Responsible for evaluating the quality of papers (content and style) and providing feedback and suggestions.• Worked with other SEB members and faculty in the review process. <i>AEW Facilitator</i> October 2008 to June 2009 <ul style="list-style-type: none">• Designed and held workshops for the Intro to Data Structures and Algorithms course (CS 14).• Held walk-in tutoring hours for the sequence of introductory Computer Science courses (CS 10, 12, 14).	
PUBLICATIONS	Christian R. Shelton, Yu Fan, William Lam , Joon Lee, Jing Xu. "Continuous Time Bayesian Network Reasoning and Learning Engine." <i>Journal of Machine Learning Research</i> , 11(Mar), 1137-1140.	

SELECTED COURSE **University of California, Riverside**, Riverside, CA, USA
PROJECTS

Multi-Terminal Multi-Way Decision Diagram Library
CS 179K - Project in Software Engineering
with Prof. Gianfranco Ciardo

April 2010 to June 2010

- Worked on team of 5 people.
- Created specifications, design, test plan documents along with implementation in C++.
- Library supports the creation and manipulation of MTMDDs, MDDs, and BDDs via graph construction methods and a set of operators.
- Designed for the easy addition of new operators to the library.
- Optimized time and memory usage by implementing custom data structures and containers.

UCRTube
CS 180 - Software Engineering
with Prof. Iulian Neamtii

January 2010 to March 2010

- Worked on team of 4 people. Served as de facto team leader.
- Created documentation along with implementation in Ruby on Rails.
- Multi-platform Ruby on Rails application that can be hosted on a server running on Windows, OS X, or Linux.
- Provides features such as account creation, video uploading, commenting, rating, searching, etc.

TECHNICAL SKILLS **Programming Languages and Frameworks**

Proficient with C/C++, MATLAB

Experience with Java, Ruby, Ruby on Rails, Python, ML, SQL, VHDL, Prolog

Applications/Tools

L^AT_EX, vim, SVN

Operating Systems

Microsoft Windows, Linux, Mac OS X

SELECTED **University of California, Riverside**

COURSEWORK Probabilistic Models for Artificial Intelligence [graduate]

Machine Learning [graduate]

Numerical Analysis

Artificial Intelligence

Software Engineering

Database Management Systems

Automata and Formal Languages

REFERENCES Available upon request