# William M. Lam

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**RESEARCH INTERESTS**

Graphical Models, Machine Learning, Artificial Intelligence

**EDUCATION**

**University of California, Irvine**, Irvine, CA, USA

PhD, Computer Science, in progress

MS, Computer Science, December 2012

**University of California, Riverside**, Riverside, CA, USA

BS, Computer Science (with highest honors), June 2010

**AWARDS & HONORS**

Bren ICS Chair's Fellowship (UC Irvine)
Academic Excellence Award (in Computer Science) (2010) (UC Riverside)
Dean's Academic Distinction Award (2007, 2008, 2009, 2010) (UC Riverside)

**PROFESSIONAL ORGANIZATIONS**

Member of Tau Beta Pi (2008-present)
Member of ACM (2007-present)

**PUBLICATIONS**

E. Busra Celikkaya, Christian R. Shelton, William Lam.
**"Factored Filtering of Continuous-Time Systems."**
*Proceedings of the Twenty-Seventh International Conference on Uncertainty in Artificial Intelligence*, 2011.

Christian R. Shelton, Yu Fan, William Lam, Joon Lee, Jing Xu.
**"Continuous Time Bayesian Network Reasoning and Learning Engine."**
*Journal of Machine Learning Research*, 11(Mar), 1137-1140.

**EXPERIENCE**

**University of California, Irvine**, Irvine, CA, USA

*Graduate Student Researcher*
*(with Prof. Rina Dechter)* **December 2010 to present**
- Investigation of AND/OR Multivalued Decision Diagrams (AOMDDs).

*Teaching Assistant* **September 2010 to present**
- ICS 21 (Intro to Computer Science I) (Fall 2010, Fall 2011).
- ICS 22 (Intro to Computer Science II) (Winter 2011).
- CS 175 (Project in Artificial Intelligence) (Spring 2011, Winter 2012).

**University of California, Riverside**, Riverside, CA, USA

*Undergraduate Research Assistant*
*(with Prof. Christian Shelton)*  **January 2009 to September 2010**

- 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 the same codebase.

*Student Editorial Board Member for UCR UGRJ*  **April 2010 to June 2010**

- 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.

*AEW Facilitator*  **October 2008 to June 2009**

- Designed and held supplementary 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).

TECHNICAL SKILLS **Programming Languages and Frameworks**
Proficient with C/C++, MATLAB, Java
Experience with Python, Ruby, Ruby on Rails, ML, Scheme, SQL, VHDL, Prolog
**Applications/Tools**
LaTeX, vim, SVN, git
**Operating Systems**
Microsoft Windows, Linux, Mac OS X

REFERENCES   Available upon request