

David L. Chen

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Education

The University of Texas at Austin 2006 - 2012

- Ph.D., Computer Science
- Supervised by Prof. Raymond J. Mooney
- Dissertation: Learning Language from Ambiguous Perceptual Context
- Research interests include: Natural Language Processing, Machine Learning, and Computer Vision
- GPA 3.92

University of California at Los Angeles 2004 - 2006

- M.S., Computer Science
- Supervised by Prof. Adnan Darwiche
- Thesis: Sisterhood of Classifiers: A Comparative Study of Naive Bayes and Noisy-or Networks
- GPA 3.90

University of California at Berkeley 2000 - 2004

- B.S., Electrical Engineering and Computer Science
- Award: Edward Frank Kraft Award Scholarship Prize for Freshmen (January 2001)
- Honor Societies: Member of HKN, TBP
- GPA 3.96

Research Experience

- **The University of Texas at Austin** **May 2007 - May 2012**
Graduate research assistant, Machine Learning Research Group, Austin, TX
 - Designed and implemented a natural language learning system that can generate sports commentaries for simulated soccer games
 - Built a navigation system that learns to follow natural language instructions in a virtual world from observing how humans follow instructions
- **Microsoft Research** **June 2010 - September 2010**
Research intern, Natural Language Processing Group, Redmond, WA
 - Designed and constructed a parallel text data collection framework on a crowdsourcing platform

- Collected over 122K sentences of paraphrase and translation data

Teaching Experience

- **The University of Texas at Austin** **August 2011 - December 2011**
Assistant Instructor for CS 303E: Elements of Computers and Programming, Austin, TX
 - Instructor for Introduction to Computer Science for non-majors (90+ students)
 - Lectured two hours per week
 - Developed syllabus, programming (Python) and written homework, and exams
- **The University of Texas at Austin** **August 2006 - May 2007**
Teaching assistant for CS 315: Algorithms and Data Structures, Austin, TX
 - Taught weekly discussion sections in data structures and Java programming
 - Implemented automatic grading scripts in Python for student assignments

Professional Experience

- **Ecoviv** **April 2009 - June 2010**
Software Engineer, Austin, TX
 - Developed back-end Java code for managing virtualization on Sun servers
 - Implemented functions for provisioning Solaris operating systems
 - Implemented an automatic scheduler for executing background jobs and powering on/off servers
 - Implemented commercial and trial license feature
- **Armatus Capital, Inc.** **October 2005 - April 2006**
Software Engineer Intern, Los Angeles, CA
 - Designed and implemented automatic stock trading system using C#.NET

Publications

- David L. Chen
Fast Online Lexicon Learning for Grounded Language Acquisition
In *Proceedings of the 50th Annual Meetings of the Association for Computational Linguistics (ACL)*, Jeju, Republic of Korea, July 2012
- David L. Chen and Raymond J. Mooney
Learning to Interpret Natural Language Navigation Instructions from Observations
In *Proceedings of the 25th AAAI Conference on Artificial Intelligence (AAAI)*, San Francisco, CA, August 2011 (24.8% acceptance)
- David L. Chen and William B. Dolan
Collecting Highly Parallel Data for Paraphrase Evaluation
In *Proceedings of the 49th Annual Meetings of the Association for Computational Linguistics (ACL)*, Portland, OR, June 2011 (25.9% acceptance overall, 18.3% oral presentation)

- David L. Chen, Joohyun Kim, Raymond J. Mooney
Training a Multilingual Sportscaster: Using Perceptual Context to Learn Language
In *Journal of Artificial Intelligence Research (JAIR)*, 37, pages 397-435, 2010
- David L. Chen and Raymond J. Mooney
Learning to Sportscast: A Test of Grounded Language Acquisition
In *Proceedings of the 25th International Conference on Machine Learning (ICML)*, Helsinki, Finland, July 2008 (27% acceptance)
- Jungwoo Ha, Christopher J. Rossbach, Jason V. Davis, Indrajit Roy, Hany E. Ramadan, Donald E. Porter, David L. Chen and Emmett Witchel
Improved error reporting for software that uses black-box components
In *Proceedings of the ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI)*, pp. 101-111, ACM, 2007 (25% acceptance)

Services

- Departmental Services
 - Executive Committee, UTCS Graduate Representative Association 2006-2007
 - Organizer, UTCS GradFest 2007 (visitation weekend for newly accepted graduate students)
- Technical Reviewer
 - AAAI Conference on Artificial Intelligence (AAAI), 2012
 - First Joint Conference on Lexical and Computational Semantics (*SEM), 2012
 - Transactions on Intelligent Systems and Technology, 2011
 - Information Systems Research, 2010, 2011
 - Creating Speech and Text Language Data with Amazon's Mechanical Turk Workshop, NAACL-2010