

Jonathan K. Kummerfeld

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Education

PhD in Computer Science (in progress) 2010–
University of California at Berkeley
Advisor: Dan Klein
Research focus: Coreference resolution

Bachelor of Science (Advanced) (Honours) Class I with Medal 2006–2009
University of Sydney
Advisor: James Curran
Thesis: Adaptive Supertagging for Faster Parsing

Publications

Parser Showdown at the Wall Street Corral: An Empirical Investigation of Error Types in Parser Output

J. K. Kummerfeld, D. Hall, J. R. Curran, and D. Klein
Empirical Methods in Natural Language Processing, EMNLP 2012

Robust conversion of CCG derivations to phrase structure trees

J. K. Kummerfeld, J. R. Curran, and D. Klein
Association for Computational Linguistics, ACL 2012

Mention Detection: Heuristics for the OntoNotes annotations

J. K. Kummerfeld, M. Bansal, D. Burkett, and D. Klein
Computational Natural Language Learning, CoNLL 2011

Spatiotemporal Hierarchy of Relaxation Events, Dynamical Heterogeneities, and Structural Reorganization in a Supercooled Liquid

R. Candelier, A. Widmer-Cooper, J. K. Kummerfeld, O. Dauchot, G. Biroli, P. Harrowell, and D. R. Reichman
Physical Review Letters, PRL 2010

Morphological Analysis Improves a CCG Parser for English

M. Honnibal, J. K. Kummerfeld, and J. R. Curran
International Conference on Computational Linguistics, CoLing 2010

Faster Parsing by Supertagger Adaptation

J. K. Kummerfeld, J. Rosener, T. Dawborn, J. Haggerty, J. Curran, and S. Clarke
Association for Computational Linguistics, ACL 2010

Faster Parsing and Supertagging Model Estimation

J. K. Kummerfeld, J. Roesner, and J. R. Curran
Australasian Language Technology Association, ALTA 2009

The Densest Packing of AB Binary Hard-Sphere Homogeneous Compounds across all Size Ratios

J. K. Kummerfeld, T. S. Hudson, and P. Harrowell
The Journal of Physical Chemistry B, JPC 2008

Classification of Verb Particle Constructions with the Google Web1T Corpus

J. K. Kummerfeld and J. R. Curran
Australasian Language Technology Association, ALTA 2008

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|--------------------------|--|------------------|
| Employment | Software Engineer – Intern, Google Research Mountain View Office, Natural Language Processing group, May - August 2012 | |
| | Software Engineer – Intern, Google Sydney Office, December 2007 - February 2008 | |
| | Research Assistant, University of Sydney School of Chemistry, 2009 School of Letters, Art and Media, 2008, 2009 School of Information Technologies, 2010 School of Physics, 2010 | |
| Awards and Honors | Outstanding Graduate Student Instructor Award University wide award in recognition of exceptional achievements as a teacher | 2011 |
| | General Sir John Monash Award “Australia’s most prestigious postgraduate scholarships promoting excellence in learning” | 2009 |
| | University Medal in Computer Science For an Honours year mark of at least 90, and an overall weighted average mark of at least 80, awarded at the discretion of the university senate | 2009 |
| | University of Sydney Academic Merit Prize Recognises the highest performing undergraduate students in each faculty based on average marks | 2008 |
| | Helen Beh Award for Citizenship For contributions to non-academic activities | 2007 |
| | G.S. Caird Scholarship Proficiency in Intermediate Computer Science | 2007 |
| | Levey Scholarship No. 1 for Physics Proficiency in Junior Physics | 2006 |
| | Farrand Science Scholarship For academic achievement | 2006 |
| | Sydney University Merit Scholarship Awarded based on a combination of high school academic results, leadership, creativity, self-motivation, and communication skills. | 2006–2009 |
| | Dean’s List of Excellence in Academic Performance High Distinction average across all subjects | 2006, 2007, 2008 |
| Teaching | High Honour Roll in Information Technology High Distinction average in IT subjects | 2006, 2007, 2008 |
| | Teaching Assistant for CS188: Artificial Intelligence University of California at Berkeley, Fall 2011 Prepared assignments, exams and sections, graded exams, held sections and office hours. | |

Teaching Assistant for INFO1903: Informatics (Advanced)

University of Sydney, Semester One 2009

Held sections and graded assignments.

Tutor for the National Computer Science School

University of Sydney, 2007, 2008, 2010

Led a group of high school students, who learnt python and built a search engine.

Tutor for the Australian Informatics Olympiad

Held at various Australian Universities, 2007, 2008, 2009, 2010

Gave lectures, prepared exams, prepared labs (involvement varied across years).

Mentor for SOFT1901: Software Development 1 (Advanced)

University of Sydney, Semester One 2007

Ran programming competition, assisted in sections.

**Summer
Research**

CLSP Workshop, Johns Hopkins University, Baltimore

2009

Parsing the Web: Large-Scale Syntactic Processing

Team Leaders: Dr S. Clarke, A. Copestake, and Dr J. Curran

Columbia University, NY

2008 / 2009

Predicting Long-Term Dynamics of Supercooled Liquids

Advisor: Prof D. Reichman

University of Sydney, Chemistry

2007

Inorganic Crystal Structure Data Mining

Advisor: Dr T. Hudson

University of Sydney, Computer Science

2006

Developing a Write-Skew Detector

Advisor: Ass. Prof. A. Fekete

University of Sydney, Physics

2005

Galactic All Sky Survey Searching Program

Advisor: Dr T. Murphy

**Leadership
Positions
(selected)**

Berkeley Computer Science Graduate Student Association

Social Coordinator, 2011–2012

President, 2012–2013

Sydney University Information Technologies Society

Founding Vice President, 2007

President, 2008

Sydney University Jazz Society

Musical Director, founder of the Big Band, 2007

President, 2008

Inner West Community Band

Founding Executive, 2010