

Curriculum Vitae

Jonathan K Kummerfeld

Personal Information

Full name	-	Jonathan Kay Kummerfeld
Contact details	-	E-mail: jkk@berkeley.edu Website: www.jkk.name
Graduate Degree	-	PhD in Computer Science (commenced in 2010) University of California, Berkeley
Undergraduate Degree	-	Bachelor of Science (Advanced) (Honours) Class I with Medal University of Sydney
High School	-	Dux of Emanuel School UAI: 99.80

Publications

- R. Candelier, A. Widmer-Cooper, J. K. Kummerfeld, O. Dauchot, G. Biroli, P. Harrowell, D. R. Reichman,
Spatiotemporal Hierarchy of Relaxation Events, Dynamical Heterogeneities, and Structural Reorganization in a Supercooled Liquid,
Physical Review Letters 105, 135702, 2010
- M. Honnibal, J. K. Kummerfeld and J. R. Curran
Morphological Analysis Improves a CCG Parser for English,
Proceedings of the 23rd International Conference on Computational Linguistics, 445–453, 2010
- J. K. Kummerfeld, J. Rosener, T. Dawborn, J. Haggerty, J. Curran, S. Clarke,
Faster parsing by supertagger adaptation,
Proceedings of the 48th Annual Meeting of the Association for Computational Linguistics, 345–355, 2010
- J. K. Kummerfeld, J. Roesner, J. Curran,
Faster parsing and supertagging model estimation,
Proceedings of the Australasian Language Technology Association Workshop, pages 62–70, 2009
- J. K. Kummerfeld, T. S. Hudson, P. Harrowell,
The densest packing of AB binary hard-sphere homogeneous compounds across all size ratios,
The Journal of Physical Chemistry B, 112, 10773-10776, 2008
- J. K. Kummerfeld, J. R. Curran,
Classification of Verb Particle Constructions with the Google Web1T Corpus,
Proceedings of the Australasian Language Technology Workshop, pages 55–63, 2008

Employment

- Software Engineer - Intern, Google, Sydney Office, December 2007 - February 2008
- Tutor, University of Sydney, for the INFO1903 course, 2009
- 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
- Temple Emanuel Hebrew and Religion School
Teacher, 2006, 2007
Administration Assistant, 2008

Selected Prizes and Awards

- 2009, General Sir John Monash Award
“Australia’s most prestigious postgraduate scholarships promoting excellence in learning”
- 2009, Shortlisted, final 6, for the NSW Rhodes Scholarship
- 2009, University Medal in Computer Science
(For an Honours year mark of at least 90, and an overall WAM of at least 80, awarded at the discretion of the university senate)
- 2008, University of Sydney Academic Merit Prize
(Recognises the highest performing undergraduate students in each faculty based on average marks)
- 2007, Helen Beh Award for Citizenship
- 2007, G.S. Caird Scholarship - Proficiency in Intermediate Computer Science
- 2006, Levey Scholarship No. 1 for Physics - Proficiency in Junior Physics
- 2006, Farrand Science Scholarship - For academic achievement
- 2006 - 2009, Sydney University Merit Scholarship
- 2006, 2007, 2008, Dean’s List of Excellence in Academic Performance
(High Distinction average across all subjects)
- 2006, 2007, 2008, High Honour Roll in Information Technology
(High Distinction average in IT subjects)

Major research projects

- 2009, *Adaptive Supertagging for Faster Parsing* -
University of Sydney Honours Thesis, Supervisor, Dr J. Curran
- June / July 2009, *Parsing the Web: Large-Scale Syntactic Processing* -
CLSP Workshop, Johns Hopkins University, Baltimore, Team Leaders, Dr S. Clarke, A. Copestake and Dr J. Curran
- Dec 2008 - Jan 2009, *Predicting long-term dynamics of supercooled liquids* -
Columbia University, NY, Supervisor, Prof D. Reichman

Summer/Vacation Scholarship Projects

- 2006, *Inorganic Crystal Structure Data Mining* - Supervisor, Dr T. Hudson, Chemistry
- 2006, *Developing a Write-Skew Detector* - Supervisor, Ass. Prof. A. Fekete, Computer Science
- 2005, *Galactic All Sky Survey Searching Program* - Supervisor, Dr T. Murphy, Physics
- Offered scholarships in Physics (2006) and Computer Science (2008)

Leadership

- Sydney Honours Organised Community:
Founder and President, 2009
Treasurer, 2010
- Sydney University Information Technologies Society:
Founding Vice President, 2007
President, 2008
- SU Jazz Society:
Musical Director, founder of the Big Band, 2007
President, 2008
- Other Societies:
Inner West Community Band – Founding Executive, 2010
SU Symphony Orchestra – Social Coordinator, 2008
SU Wind Orchestra – Secretary, 2007
SU Science Society – IT Officer, 2007
Faculty of Engineering and IT Board – Student Representative, 2007

Selected Teaching and Mentoring Activities

- National Computer Science School, Tutor, 2007, 2008, 2010
- Australian Informatics Olympiad, Tutor for the School of Excellence and Team Selection School, 2007
- Volunteer Mentor, Soft1901 course, Semester One, 2007

Sport

- 14km City2Surf, Competitor,
2009 – 58:46 (1,156 / 62,644)
2008 – 74:55
- 10km Run4Fun, Competitor,
2009 – 46:38, (564 / 4,727)
- Club/Invitation 4km at the NSW Novice Championships, Competitor,
2009 – 15:14, (47 / 118)
- Sydney University Athletics Club, Long distance athlete, 2006 and 2009
- Inter-faculty Race, Science Faculty Representative,
2008 – 15th
2007 – 12th
2006 – 17th

Music

- Trumpeter :
2010/2011 - UC Berkeley Wind Ensemble
2010 - Inner West Community Band
2006–2009 - Sydney University Symphony Orchestra
2006–2008 - Sydney University Wind Orchestra
2007–2008 - Sydney University Jazz Society Big Band
2009 - Musical Theatre Ensemble major production (pit orchestra)
2007 - Dramatic Society major production (pit orchestra)
2006 - Brass Quintet at the Maths Society Concert
2006 - Science Revue band
2000–2002 - Sydney Youth Orchestra: Peter Seymour Orchestra
2000–2003 - Leichardt Community Band
Emanuel School Concert Band (1996–2004), Stage Band (2002–2005), Senior Instrumental Ensembles (2002–2005)
- Vocalist:
2008 - Acapella Octet and Quartet at the SU Maths Society Concert
2006 - Acapella Quartet at the SU Maths Society Concert
2006 - Bass in the SU Music Society choir