

Oliver Adams

1 Personal Information

Name: Oliver Patrick Adams

Nationality: Australian and European Citizen (British)

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2 Career Objective

I have a passion for engineering and solving problems. After finishing my thesis on automatic processing of bilingual audio for language preservation, I will continue to investigate and solve problems that make a positive impact on the world, whether it is specifically in the context of natural language processing and machine learning or more broadly in computer science and software engineering.

3 Qualifications

May 2012 – Present (in progress)

Doctor of Philosophy (Computer Science), the University of Melbourne under the supervision of Steven Bird, Trevor Cohn and Graham Neubig.

February 2008 – November 2011

Bachelor of Science, Honours (Computer Science), the University of Melbourne.

2007

Higher School Certificate at the Australian International School, Singapore.

4 Training and Work Experience

July 2016 – October 2016: Intern at IBM Research Australia conducting natural language processing research.

February 2016 – May 2016: Intern at the Nara Institute of Science and Technology under the supervision of Graham Neubig as part of my PhD program.

October 2015 – January 2016: Intern at Xerox Research Center India conducting natural language processing research.

March 2015 – June 2015: *Knowledge Technologies* Tutor
Conducting tutorials in the postgraduate subject *Knowledge Technologies* at the University of Melbourne (<https://handbook.unimelb.edu.au/view/2015/COMP90049>).

February 2015
Attended the NICTA Machine Learning Summer School.

July 2014
Attended the 4th Lisbon Machine Learning Summer School.

June 2012 – June 2014: Software Engineer
Primary programmer for Aikuma, an Android natural language preservation app (www.lp20.org/aikuma). In addition to programming, I contributed to higher-level design decisions relating to the user interface and intended functionality of the app.

March 2011 – November 2012: Informatics and Computer Science Tutor
Running tutorials in the subjects *Informatics 1*, *Informatics 2* and *Introduction to Computing* at the University of Melbourne. Through this I have strengthened my interpersonal skills, and ability to articulate complex concepts clearly and precisely.

October 2010 – January 2010: Mathematics Video Producer
Co-author of *Running the Streets*, an instructional video series on the Mathematics of Poker at *Deuces Cracked* (deucescracked.com).

June 2009 – August 2010: Mathematics Tutor
Taught high-school students privately in the VCE (Australian year 11 and 12) subjects *Mathematics Methods* and *Specialist Mathematics*, fostering my ability to explain and communicate ideas.

October 2008 – July 2010: Footbag Instructor and Performer
Instructed and performed footbag for thousands of students across Victoria, Australia as part of the *Footbag 4 Fun* program, gaining valuable communication and leadership skills.

5 Awards

EMNLP 2016 Best Short Paper Award for *Learning a Lexicon and Translation Model from Phoneme Lattices* for which I was the first author, with Graham Neubig, Trevor Cohn, Steven Bird, Quoc Do Truong and Satoshi Nakamura as co-authors.

Google Australia PhD Travel Scholarship of 1,900 AUD to attend EMNLP 2016.

Australian Postgraduate Award, a 25,849 AUD per annum scholarship for PhD candidature.

Lead programmer for team *Aikuma*, which won the 8,000 USD Grand Prize at the 2013 Open Source Software World Challenge.

Google grant of 750 Euros to attend the 4th Lisbon Machine Learning Summer School (2014).

6 Language Proficiency

English (Native), German (Intermediate).

7 Publications

Adams, O, A Makarucha, G Neubig, S Bird and T Cohn (2017). Cross-Lingual Word Embeddings for Low-Resource Language Modeling, To appear in *Proc 15th Conf of the European Chapter of the Assn for Computational Linguistics*, Barcelona, Spain.

Adams, O, G Neubig, T Cohn, S Bird, Q T Do and S Nakamura (2016). Learning a lexicon and translation model from phoneme lattices, *Proc Conf on Empirical Methods in Natural Language Processing*, pp 2377–82, Austin, USA. [↗] **Best Short Paper Award**

O Adams, S Roy, R Krishnapuram (2016). Distributed vector representations for unsupervised automatic short answer grading, *Proc of the 3rd Workshop on Natural Language Processing Techniques for Educational Applications*, pp 32-41, Osaka, Japan. [↗]

Adams, O, G Neubig, T Cohn and S Bird (2016). Learning a translation model from word lattices, *Proc Interspeech*, San Francisco, USA. [↗]

Adams, O, G Neubig, T Cohn and S Bird (2015). Inducing bilingual lexicons from small quantities of sentence-aligned phonemic transcriptions, *Proc Intl Workshop on Spoken Language Translation*, pp 248–255, Na Dang, Vietnam. [↗]

S Bird, F Hanke, O Adams and H Lee (2014). Aikuma: A mobile app for collaborative language documentation, *Workshop on the Use of Computational Methods in the Study of Endangered Languages*, pp 1–5, Baltimore, USA. [↗]

M Lui, N Letcher, O Adams, L Duong, P Cook, T Baldwin, N Victoria (2014). Exploring methods and resources for discriminating similar languages, *Proc of the First Workshop on Applying NLP Tools to Similar Languages*, pp 129-138, Dublin, Ireland. [↗](#)