

Daniel Wymark

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Education

Academic Qualifications.....

BA in Linguistics. Mathematics Minor. Specialization in Computing. **6/2015–8/2017**
University of California Los Angeles (UCLA) *Los Angeles, CA*

Departmental Honors.
Major GPA 4.00 / Overall GPA 3.75

AAs in Linguistics, Natural Sciences, Social Sciences, and Humanities. **9/2011–6/2015**
Pasadena City College *Pasadena, CA*

Linguistics Major. Administration Honors.
Major GPA 4.00 / Overall GPA 3.96

Awards and Scholarships.....

Undergraduate Research Fellowship Program **9/2016–3/2017**
University of California Los Angeles

Two quarters of financial support for original research.

Linguistics Honors Scholarship for Extraordinary Achievement **6/2014**

Pasadena City College
Award for performance in coursework.

Talks and Presentations.....

'Towards a Boolean Intensional Semantics' **5/25/2017**
UCLA Undergraduate Research Week *Los Angeles, CA*

Oral Presentation

'A Boolean Approach to Evaluative Adjectives and Intensionality' **2/18/2017**
2017 AAAS Annual Meeting *Boston, MA*

Student Poster Competition

'Proposal For New IPA Diacritics' **10/17/2016**

UCLA Phonetics Seminar, P. Keating, D. Wymark, and R. Sharif. *Los Angeles, CA*
Department Talk

Research Experience.....

- **Honors Thesis:** *'Towards a Boolean Intensional Semantics'* (Advisor: Tim Hunter)
 - Worked on during **6/2016–6/2017**.
 - Worked towards developing a general framework for intensional semantics that leveraged the mathematical properties of atomless boolean algebras.
- **Phonetics Proposal:** *'Proposal for Superscript Diacritics for Prenasalization, Preglottalization, and Preaspiration'* (with IPA President Patricia Keating and Ryan Sharif)
 - Primarily worked on during **1/2016–6/2017**.
 - Proposing the addition of diacritics for prenasalization, preglottalization, and preaspiration, widely attested phenomena that are of great interest to phoneticians.
 - Proposal submitted to the Journal of the IPA in June 2018.
- **Manuscript:** *'Relative Frequencies of English NPs'*
 - Primarily worked on during **6/2017–3/2018** with some work still on-going.
 - Providing a statistical analysis of the frequencies of major subcategories of English noun phrases.
 - Preliminary work cited in Ed Keenan's (2018) "Eliminating the Universe: Logical Properties of Natural Language".

Selected Coursework.....	
Semantic Theory II <i>Ling 201C, Graduate Course</i>	Spring 2017 UCLA
Language and Culture of Ryukyu/Okinawa <i>Japn 191B, Upper Division Course</i>	Spring 2017 UCLA
Syntax II <i>Ling 165B, Upper Division Course</i>	Winter 2017 UCLA
Mathematical Logic <i>Math 220A, Graduate Course</i>	Fall 2016 UCLA
Computational Linguistics <i>Ling 209A, Graduate Course</i>	Fall 2016 UCLA
Introduction to Algorithms and Complexity <i>Com Sci 180, Upper Division Course</i>	Winter 2016 UCLA

Work Experience

Employment.....

Software Engineer <i>SmartAction</i>	8/2017–Present <i>El Segundo, CA</i>
Playing a significant role in shaping an applied R&D project in the field of natural language processing. Writing scripts in Python and Lisp to test and analyze systems being developed in the project. Developing in-house linguistic resources.	
Tutor, Math and Linguistics <i>Math Resource Center, Learning Assistance Center</i>	7/2014–7/2015 <i>Pasadena City College</i>
Provided support and guidance to classes of 20+ students as well as one-on-one tutoring. Led study groups of 10-30 students. Helped to create an open and welcoming learning environment.	

Volunteer Work.....

Research Ambassador <i>Undergraduate Research Center</i>	5/2017 UCLA
Directed and assisted students, guests and faculty attending UCLA's 2017 Undergraduate Research Week.	
"Natsumi No Sato" (Inn / Farm) General Volunteer <i>World Wide Opportunities on Organic Farms (WWOOF) Japan</i>	6/2012–7/2012 <i>Hokkaido, Japan</i>
Performed various household and outdoor tasks. All communications were exclusively in Japanese.	

Languages and Skills.....

- o **Natural Language Processing:** Experience leveraging lexical resources (WordNet, VerbNet) in semantic parsing. Working knowledge of Latent Semantic Analysis, word vector models, uses of deep learning in NLP. Experience developing frameworks that use a combination of classical rule-based algorithms and modern statistical approaches.
- o **Programming Languages:** Professional experience with Python and Common Lisp. Familiarity with Java, Haskell, C/C++.
- o **Natural Languages:** English (native). Japanese (conversational, strong listening comprehension).
- o **Linguistic Annotation:** ToBI (Intonation) Transcription, Phonetic Transcription, Praat.