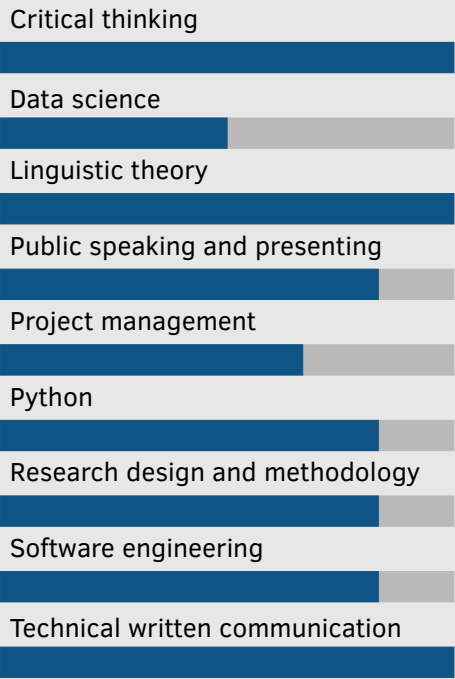


Robert Daland

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Skills



Skill scale:
 half = executed medium-sized projects
 full = expert

Interests

Computer understanding of natural language Complex systems; History; Data visualization

Education

2009	PhD, Linguistics	Northwestern University
2001	MS, Mathematics	North Carolina State University
2001	BA, English	North Carolina State University
2000	BS, Mathematics	North Carolina State University

Experience

2019 – now	Software Engineer	Apple Siri Natural Language Understanding	<p>Architected test ecosystem for client NLU system.</p> <p>Designed and implemented most of client NLU integration test harness, including lightweight human-readable format for authoring.</p> <p>Maintained test infra and oversaw testing coverage during locale and platform expansion.</p> <p>Comprehensive documentation of runtime client NLU system.</p> <p>Taught AI/ML University classes on Siri NLU.</p> <p>Directly Responsible Individual (DRI) for text normalization on Siri client NLU across multiple locales.</p> <p>DRI (team technical/product lead) for an ML-based language classifier service now in production.</p> <p>Backend design and implementation for portions of multilingual understanding.</p>
2017 – 2019	Quality Engineer	Apple Siri Natural Language Understanding	<p>Liaison between Siri NLU and Quality teams.</p> <p>Maintained server NLU release infrastructure, including ML promotion pipelines.</p> <p>Comprehensive documentation of runtime server NLU system.</p> <p>Taught AI/ML University classes on Siri NLU.</p>
2009 – 2017	Assistant Professor	UCLA Humanities & Social Sciences Linguistics	<p>Mentored graduate students and taught undergraduates.</p> <p>Pursued research interests in computational phonology and psycholinguistics, particularly the inter-relationship between language experience/acquisition, phonotactics, and speech perception.</p> <p>Published in top-tier journals and conferences such as Linguistic Inquiry, Natural Language and Linguistic Theory, Phonology, and Association for Computational Linguistics.</p>
2003 – 2009	Graduate Student	Northwestern Humanities & Social Sciences Linguistics	<p>Coursework, teaching and research assistantships, and primary research.</p>
2001	Firmware Engineer	Powerware/Invensys Contractor	<p>Addressed a battery overheating problem by tracking voltage variation (assembly language).</p>

Selected Publications

- 2020 Mayer C & Daland R. A method for projecting features from observed phonological classes. *Linguistic Inquiry*.
- 2019 Daland R, Oh M, & Davidson L. On the relation between speech perception and loanword adaptation. *Natural Language and Linguistic Theory* 37(3), 825-868.
- 2015 Daland R. Long words in maximum entropy phonotactic grammars. *Phonology* 32(3), 353-383.
- 2015 Daland R, Oh M, & Kim S. When in doubt, read the instructions: Orthographic effect in loanword adaptation. *Lingua* 159, 70-92.
- 2014 Daland R. What is computational phonology? (OPEN ACCESS) *LO-QUEENS* 1(1), e400.
- 2013 Cristia A, Daland R, Mielke J, & Peperkamp S. Similarity in the generalization of implicitly learned sound patterns. *Laboratory Phonology* 4(2), 259-286.
- 2013 Daland R & Zuraw K. Does Korean defeat phonotactic word segmentation? *ACL 51*, Sofia, Bulgaria, August 4-9, 2013.
- 2013 Daland R. Variation in child-directed speech: A case study of manner class frequencies. (OPEN ACCESS) *Journal of Child Language* 40(5), 1091-1122.
- 2011 Daland R, Hayes B, White J, Garellek M, Davis A, & Norrmann I. Explaining sonority projection effects. *Phonology* 28(2), 197-234.
- 2011 Daland R & Pierrehumbert JB. Learning diphone-based segmentation. *Cognitive Science* 35(1), 119-155.
- 2009 Goldrick M & Daland R. Linking speech errors and phonological grammars: Insights from Harmonic Grammar networks. *Phonology* 26(1) (special issue on connecting theory and experimental methods), 147-185.
- 2007 Daland R, Sims AD, & Pierrehumbert JB. Much ado about nothing: A social network model of Russian paradigmatic gaps. *ACL 45*, Prague, June 23rd-June 30th.