

Curriculum Vitae

Levi King

Mountain View, CA
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EDUCATION

Indiana University, Bloomington, IN expected August 2021
PhD in Linguistics; minor in Second Language Studies; GPA: 3.9
Advisors: Markus Dickinson, Sandra Kuebler, David Stringer (Dept. of Linguistics), Sunyoung Shin (Dept. of Second Language Studies)
Dissertation: Semantic Analysis of Image-Based Learner Sentences
Defense Date: August 6, 2021

Indiana University, Bloomington, IN May 2011
MA in Linguistics/TESOL, GPA: 3.9
Advisors: Markus Dickinson (Dept. of Linguistics), Kathleen Bardovi-Harlig (Dept. of Second Language Studies)

Ball State University, Muncie, IN August 2004
BA in English, GPA: 3.8
Advisor: Barbara Stedman (Dept. of English)

PROFESSIONAL EXPERIENCE

Adecco, onsite at Google, Mountain View, CA September 2018 – June 2020
Speech Data Ops Language Engineer
Migrated text-to-speech pipelines from obsolete pronunciation systems to a unified system for 70+ languages and launched 10+ new languages. Wrote automation tools, updated unit tests, built, compared and debugged voices in collaboration with linguists and engineers.

IU Dept. of Second Language Studies, Bloomington, IN 2008–2012, 2016–2017
ESL Instructor & Testing Assistant
Administered placement exams and interviews of incoming international students and teaching assistant candidates; conducted scoring and data analysis. Taught English courses to adult learners with various language backgrounds and proficiency levels in the Intensive English Program. Taught advanced literacy in the English Language Improvement Program.

Linguist List, Bloomington, IN Summer 2015
Volunteer Research Assistant
Worked 20 hours per week with a team to develop a Yiddish automatic speech recognition system. Tasks involved automating phonetic transcription from annotations and developing acoustic models via forced alignment.

IU Department of Linguistics, Bloomington, IN May 2012 – December 2014
Research Assistant / Webmaster
Produced annual department newsletters. Maintained previous department website; co-developed new department website. Produced flyers and websites for workshops and special events.

IU Department of Linguistics, Bloomington, IN
Corpus Annotator

May 2011 – May 2012

Edited automatic annotation and performed manual annotation for the POS tagging, constituency parsing and dependency parsing of a spoken dialog corpus (Cooperative Remote Search Task (CREST) Corpus) for an Office of Naval Research project.

Fulbright Foundation

June 2006 – June 2007

Fulbright English Teaching Assistant

Taught first through sixth grade students at two elementary schools in rural Taiwan. Developed educational DVDs and materials for local schools. Coached students for English competitions. Hosted workshops for local English teachers.

PUBLICATIONS

Levi King and Markus Dickinson. 2018. Annotating Picture Description Task Responses for Content Analysis. In *Proceedings of the 13th Workshop on Innovative Use of NLP for Building Educational Applications (BEA13)*. New Orleans, LA. pp. 101–109.

Levi King and Markus Dickinson. 2016. Shallow Semantic Reasoning from an Incomplete Gold Standard for Learner Language. In *Proceedings of the 11th Workshop on Innovative Use of NLP for Building Educational Applications (BEA11)*. San Diego, CA. pp. 112–121.

Levi King and Markus Dickinson. 2014. Leveraging Known Semantics for Spelling Correction. In *Proceedings of the Third Workshop on NLP for Computer-Assisted Language Learning (NLP4CALL)*. Uppsala, Sweden. pp. 43–58.

Levi King, Eric Baucom, Timur Gilmanov, Sandra Kuebler, Daniel Whyatt, Wolfgang Maier, and Paul Rodrigues. 2014. The IUCL+ System: Word-Level Language Identification via Extended Markov Models. In *Proceedings of the First Workshop on Computational Approaches to Code-Switching*. Doha, Qatar. pp. 102–6.

Alex Rudnick, Levi King, Can Liu, Markus Dickinson, Sandra Kuebler. 2014. IUCL: Combining Information Sources for SemEval Task 5. In *Proceedings of the 8th International Workshop on Semantic Evaluation (SemEval 2014)*. Dublin, Ireland. pp. 356–60.

Eric Baucom, Levi King and Sandra Kuebler. 2013. Domain Adaptation for Parsing. In *Proceedings of the 9th Conference on Recent Advances in Natural Language Processing (RANLP-13)*. Hissar, Bulgaria. pp. 56–64.

Levi King and Markus Dickinson. 2013. Shallow Semantic Analysis of Interactive Learner Sentences. In *Proceedings of the Eighth Workshop on Innovative Use of NLP for Building Educational Applications (BEA8)*. Atlanta, GA. pp. 11–21

Levi King, Sandra Kuebler and Wallace Hooper. 2013. Word-level Language Identification in “The Chymistry of Isaac Newton.” In *Proceedings of the 2013 Digital Humanities Conference*. Lincoln, NE. pp. 258–61.

PRESENTATIONS

Levi King. Politeness and Proficiency of English Language Learners Online. Teachers of English to Speakers of Other Languages annual conference (TESOL). Philadelphia, PA. March 31, 2012.

Levi King. Reinforcing Academic Reading Skills Through Mystery Stories. Indiana Teachers of English to Speakers of Other Languages annual conference (INTESOL). Indianapolis, IN. November 19, 2011.

SERVICE

Peer Reviewer: Indiana TESOL Conference, 2011-2012; Extrinsic Parse Improvement (EPI) 2013; Building Educational Applications (BEA) Workshop, 2014-2019; Digital Humanities Conference, 2014; SemEval Workshop, 2014-2015.

Volunteer Rater: North American Computational Linguistics Olympiad, 2016, 2018.

COMPUTER SKILLS

Proficient/Experienced: Python; Excel; Natural Language Toolkit (NLTK); TnT POS Tagger; Aspell & Enchant spelling correction modules; SENNA semantic role labeler; CMU Statistical Language Modeling (SLM) Toolkit; LATEX; Bash; Berkeley, Stanford, MST, MATE, Malt, LoPar & DeSR syntactic parsers; Stanford CoreNLP/Stanza

Moderate Experience: HTML; Adobe Dreamweaver, Illustrator, InDesign, Photoshop & Premiere; Final Cut Pro X; ELAN; TigerSearch; BERT; SBERT; Word2Vec; NumPy; spaCy; GATE; WordNet; C++; Java; PHP; Perl; WordPress; WEKA; Scikit-learn; KenLM Language Modeling Toolkit; TensorFlow

LANGUAGES

English (native), Spanish (intermediate), Mandarin Chinese (low intermediate)