LEVI KING

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EDUCATION

Indiana University, Bloomington

PhD Candidate, Computational Linguistics

GPA: 3.9. Minor: Second Language Studies. Thesis: *Semantic Analysis of Image-Based Learner Sentences*; Research focused on natural language processing approaches to noisy, non-native and multi-lingual data. (Expected spring 2021)
Advisors: Markus Dickinson, Sandra Kuebler & David Stringer (Dept. of Linguistics); Sunyoung Shin (Dept. of Second Language Studies)

2011 Indiana University, Bloomington

Dual MA, Computational Linguistics & TESOL / Applied Linguistics

GPA: 3.9. CL coursework and research focused on language modeling, parsing and content analysis; some machine learning. TESOL coursework and research focused on second language acquisition and practical applications in pedagogy and testing.
Advisors: Markus Dickinson (Dept. of Linguistics), Kathleen Bardovi-Harlig (Dept. of Second Language Studies)

2004 Ball State University, Muncie, IN

BA, English

GPA: 3.8. Minor: Spanish. Awards: National Merit Scholar; Magna Cum Laude. Coursework focused on English language and literature.
Advisor: Barb Stedman (Dept. of English)

RELEVANT EXPERIENCE

Sept 2018 - June 2020 Speech Data Ops Language Engineer

Adecco, onsite at Google

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.

2016–2017 2008–2012 ESL Instructor & Testing Assistant

IU Department of Second Language Studies

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.

Summer 2015 Volunteer Research Assistant

Linguist List

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.

2012–2014 Research Assistant / Webmaster

IU Department of Linguistics

Produced annual department newsletters. Maintained previous department website; co-developed new department website. Produced flyers and websites for workshops and special events.

	2011–2012 Corpus Annotator
IU Department of Linguistics	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.
	2006–2007 Fulbright English Teaching Assistant
Fulbright Foundation	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

BEA	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.
BEA	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.
NLP4CALL	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.* Uppsala, Sweden. pp. 43–58.
CodeSwitch at EMNLP	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.
SemEval	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.* Dublin, Ireland. pp. 356–60.
RANLP	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.
BEA	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
Digital Humanities	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

TESOL	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.
INTESOL	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 (BY EXPERIENCE LEVEL)

High   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

Moderate   HTML; Adobe Dreamweaver, Illustrator, InDesign, Photoshop & Premiere; ELAN; TigerSearch; BERT; Word2Vec; NumPy; spaCy; GATE; WordNet

Low   C++; Java; PHP; Perl; WordPress; WEKA; Scikit-learn; KenLM Language Modeling Toolkit; TensorFlow

OTHER INFORMATION

Languages   English (native) · Spanish (low intermediate) · Chinese (low intermediate)