

Peter Schoener

EDUCATION

- 2018 – 2020 (expected) **University of Washington, Seattle**
Computational Linguistics MS (3.58 GPA as of 1/2020)
- 2015 – 2018 **Eberhard Karls Universität Tübingen**
Computational Linguistics BA (approx. 3.6 GPA equivalent, 1.7 on German scale)

EXPERIENCE

- November 2017 – March 2018 **Teaching Assistant | Universität Tübingen | Tübingen, Baden-Württemberg**
Facilitated learning by clearly explaining concepts, effectively answering student questions, and giving meaningful feedback.
- June 2017 – April 2018 **Intern | Kamusi GOLD | Tübingen, Baden-Württemberg**
Broadened applications of Kamusi's GOLD translation dictionary and related software by leading development of an abstractive statistical transliteration model.
- November 2016 – May 2017 **Research Assistant | Universität Tübingen | Tübingen, Baden-Württemberg**
Increased test subject availability by building LTI-compliant web applications (Java/GWT) for cognitive assessment as part of a language learning study.
- June 2015 – August 2015 **Independent Contractor | Apple Inc. (via WeLocalize) | Cupertino, CA**
Facilitated accurate ML training by annotating English and German texts for a document classification and data structuring project.

RESEARCH

B.A. Thesis: A Neural Approach to Semantic Compatibility of Nouns and Adjectives on the Basis of Word Embeddings (Advisor: Dr. Daniël de Kok)

Original work on predicting semantic compatibility of arbitrary noun-adjective pairs for the SFB A3 embedding composition project at the University of Tübingen as well as the dependency parsing project. Uses a neural approach to reliably predict the semantic compatibility of a noun-adjective pair.

Identification of Semantic Shifts in English Using Word Embeddings (Course: Unsupervised Learning, Dr. Çağrı Çöltekin)

Reimplementation of (Kutuzov and Kuzmenko, 2018) with some adjustment as per (Leeuwenberg et al., 2016) and reapplication to shifts over time rather than domain, with qualified success.

SKILLS

Programming Languages

Rust	Tensorflow, rust2vec linear algebra and other parallelizable operations
C18, C++03	Windows and POSIX APIs
Java 7, 8	Apache OpenNLP GWT, Swing
Python 3	NLTK Tensorflow Scikit/Sklearn, NumPy
(ba)sh	particular experience with text processing utilities (grep, sed, etc.)

Some exposure to Lisp, Prolog, R

Natural Languages

- ❖ English (*native*)
- ❖ German (*functionally native*)
- ❖ French (*intermediate*)

Methods

- ❖ Regression, shallow and deep NNs
- ❖ Clustering
- ❖ Ngram and Markov models
- ❖ Vector space embeddings
- ❖ Efficient linear algebra application and implementation
- ❖ String comparison metrics and fuzzy search
- ❖ Strong regex skills
- ❖ Rule-based and statistical parsing and meaning extraction

Other

- ❖ Experience with academic writing
- ❖ Can teach others quickly and effectively
- ❖ Strong understanding of linear algebra, statistics, and mathematical logic
- ❖ Management and teamwork experience

CONTACT

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