

Kilian Evang, PhD

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Updated: 2019-04-12

Profile

A computational linguist with a keen interest in software engineering, I enjoy solving problems related to grammar, multilingualism, and semantic parsing. My favorite tools include deep learning, transition-based parsing, and categorial grammars.

2018– Postdoctoral researcher

Project: TreeGrasP, ISI, University of Düsseldorf

2017–2018 Postdoctoral researcher/lecturer

ISI, University of Düsseldorf

2015–2017 Researcher/lecturer

Project: Parallel Meaning Bank, CLCG/CIW, University of Groningen

2011–2017 PhD in Computational Semantics (*cum laude* – highest possible distinction)

Project: Groningen Meaning Bank, CLCG, University of Groningen

2008–2011 M.A. in Computational Linguistics

Department of Linguistics, University of Tübingen

July 2007 – October 2007 Intern

IBM Research and Development, Böblingen

2005–2008 B.A. in Computational Linguistics

Department of Linguistics, University of Tübingen

Grants and Awards

2017 NVIDIA GPU Grant, Titan Xp GPU

Project: Cross-lingual CCG Induction

2009 Karl Steinbuch Scholarship (with Johannes Dellert)

Project: Kahina – a Graphical Debugging Environment for Grammar Development

Publications

Cross-lingual CCG Induction

Kilian Evang

In Proceedings of NAACL 2019 (long paper)

Transition-based DRS Parsing with Stack-LSTMs

Kilian Evang

In Proceedings of the IWCS 2019 Shared Task on Semantic Parsing

RRGbank: a Role and Reference Grammar Corpus of Syntactic Structures Extracted from the Penn Treebank

Tatiana Bladier, Andreas van Cranenburgh, Kilian Evang, Laura Kallmeyer, Robin Möllemann, Rainer Osswald

In Proceedings of TLT17 (International Workshop on Treebanks and Linguistics Theory)

Last Words: Sharing is Caring: The Future of Shared Tasks

Malvina Nissim, Lasha Abzianidze, Kilian Evang, Rob van der Goot, Hessel Haagsma, Barbara Plank, Martijn Wieling

In *Computational Linguistics* 43(4), 2017

The Groningen Meaning Bank

Johan Bos, Valerio Basile, Kilian Evang, Noortje Venhuizen, Johannes Bjerva

In Nancy Ide, James Pustejovsky (eds.): *The Handbook of Linguistic Annotation*

Berlin: Springer, 2017

BuzzSaw at SemEval-2017 Task 7: Global vs. Local Context for Interpreting and Locating Homographic English Puns with Sense Embeddings

Dieke Oele, Kilian Evang

In Proceedings of SEMEVAL 2017 (shared task)

The Parallel Meaning Bank: Towards a Corpus of Translations with Deep Semantic Annotations

Lasha Abzianidze, Johannes Bjerva, Kilian Evang, Hessel Haagsma, Rik van Noord, Pierre Ludmann, Duc-Duy Nguyen, Johan Bos

In Proceedings of EACL 2017

Cross-lingual Learning of an Open-domain Semantic Parser

Kilian Evang, Johan Bos

In Proceedings of COLING 2016

Cross-lingual Semantic Parsing with Categorical Grammars

Kilian Evang

PhD thesis, University of Groningen, 2016

RoBox: CCG with Structured Perceptron for Supervised Semantic Parsing of Robotic Spatial Commands

Kilian Evang, Johan Bos

In Proceedings of SEMEVAL 2014 (shared task)

Elephant: Sequence Labeling for Word and Sentence Segmentation

Kilian Evang, Valerio Basile, Grzegorz Chrupała, Johan Bos

In Proceedings of EMNLP 2013

Kahina: A Hybrid Trace-Based and Chart-Based Debugging System for Grammar Engineering

Johannes Dellert, [Kilian Evang](#), Frank Richter

In ESSLI 2013 Workshop on High-level Methodologies for Grammar Engineering (HMGE 2013)

Scope Disambiguation as a Tagging Task

[Kilian Evang](#), Johan Bos

In Proceedings of IWCS 2013

Gamification for Word Sense Labeling

Noortje Venhuizen, Valerio Basile, [Kilian Evang](#), Johan Bos

In Proceedings of IWCS 2013

Annotating Semantic Roles in a Lexicalised Grammar Environment

Johan Bos, [Kilian Evang](#), Malvina Nissim

In Proceedings of the ISA-8 Workshop (2013)

UGroningen: Negation Detection with Discourse Representation Structures

Valerio Basile, Johan Bos, [Kilian Evang](#), Noortje Venhuizen

In Proceedings of *SEM 2012 (shared task)

Developing a Large Semantically Annotated Corpus

Valerio Basile, Johan Bos, [Kilian Evang](#), Noortje Venhuizen

In Proceedings of LREC 2012

A Platform for Collaborative Semantic Annotation

Valerio Basile, Johan Bos, [Kilian Evang](#), Noortje Venhuizen

In Proceedings of EACL 2013 (system demonstrations)

PLCFRS Parsing of English Discontinuous Constituents

[Kilian Evang](#), Laura Kallmeyer

In Proceedings of IWPT 2011

Parsing Discontinuous Constituents in English

[Kilian Evang](#)

Master's thesis, University of Tübingen

TuLiPA: Towards a multi-formalism parsing environment for Grammar Engineering

Laura Kallmeyer, Timm Lichte, Wolfgang Maier, Yannick Parmentier, Johannes Dellert, [Kilian Evang](#)

In Proceedings of the Coling 2008 Workshop on Grammar Engineering Across Frameworks

The metadata-database of a next generation sustainability Web-platform for language resources

Georg Rehm, Oliver Schonefeld, Andreas Witt, Timm Lehmborg, Christian Chiarcos, Hanan

Bechara, Florian Eishold, [Kilian Evang](#), Magdalena Leshtanska, Aleksandar Savkov, Matthias Stark

In Proceedings of LREC 2008

Problems of Generating German from First-Order Formulae in Automatic Translation from English to German

Kilian Evang

Bachelor's thesis, University of Tübingen, 2008

On the lossless transformation of single-file, multi-layer annotations into multi-rooted trees

Andreas Witt, Oliver Schonefeld, Georg Rehm, Jonathan Khoo, Kilian Evang

In Proceedings of Extreme Markup Languages 2007

Invited Talks

Exploring Transition-based Methods for Semantic Parsing to Discourse Representation Structures

April 2019, Vortragsreihe, Sprachwissenschaftliches Institut, Ruhr-Universität Bochum

Cross-lingual Transfer of a Semantic Parser via Parallel Data

August 2015, NLIP Seminar Series, University of Cambridge

Cross-lingual Transfer of a Semantic Parser via Parallel Corpora

December 2014, Computational Linguistics Colloquium, University of Düsseldorf

Teaching

Cross-lingual Semantic Parsing

ESLLI 2018, Sofia

Semantic Parsing

Spring 2018, B.A. Computational Linguistics, University of Düsseldorf

CL Programming I: Python

Fall 2017, B.A. Computational Linguistics, University of Düsseldorf

Web Programming

Spring 2017, B.A. Information Science, University of Groningen

Semantic Web Technology

Fall 2015, M.A. Information Science, University of Groningen

Advanced Programming

Spring 2017, B.A. Information Science, University of Groningen

Spring 2016, B.A. Information Science, University of Groningen

Spring 2014, B.A. Information Science, University of Groningen

Spring 2013, B.A. Information Science, University of Groningen

Logic Programming

Fall 2016, B.A. Information Science, University of Groningen

Database-driven Web Technology

Fall 2016, B.A. Information Science, University of Groningen

Fall 2015, B.A. Information Science, University of Groningen

Software

I have ample experience creating complex and maintainable software, using Python, Java, Go, Linux, MySQL and PHP. Projects I have worked on include:

CCGWeb, a Web-based annotation platform for Combinatory Categorical Grammar

<https://github.com/texttheater/ccgweb>

viasock, a tool to transparently serverize scripts to speed up Unix pipelines

<https://github.com/texttheater/viasock>

produce, a build automation tool geared towards NLP pipelines and machine learning

<https://github.com/texttheater/produce>

golang-levenshtein, a Go package implementing the Levenshtein string distance algorithm

<https://github.com/texttheater/golang-levenshtein>

epar, a Java implementation of Zhang and Clark's shift-reduce CCG parser

<https://github.com/rug-compling/epar>

PMB Explorer, a Web-based collaborative semantic annotation platform

<http://pmb.let.rug.nl/explorer>

Committees and Roles

Organizing committee, TLT 2019 (International Workshop on Treebanks and Linguistic Theory)

Publications chair, *SEM 2019

Organizing committee, Girls' Day 2019, ISI, University of Düsseldorf

Area chair Theoretical and Formal Semantics, *SEM 2018 (with Sam Bowman)

Publications chair, *SEM 2014 (with Valerio Basile)

Organizer, Computational Linguistics Reading Group, University of Groningen (2012–2013)

Organizing committee, TABU Dag 2013, University of Groningen

Organizing committee, TaCoS 2007, University of Tübingen

Program committee, ACL 2019

Program committee, NAACL 2019

Program committee, LAW-MWE-CxG 2018

Program committee, COLING 2018

Program committee, ACL 2018

Program committee, *Computational Linguistics* (2017)

Program committee, 11th Linguistic Annotation Workshop (2017)

Program committee, EACL 2017 Student Research Workshop

Program committee, NAACL 2017 Student Research Workshop

Program committee, 9th Linguistic Annotation Workshop (2015)

Program committee, AAI-15 (2015)

Program committee, ACL 2014 Student Research Workshop

Program committee, *Data & Knowledge Engineering* (2013)

Miscellaneous

Language skills: German (native), English (full professional proficiency), Dutch (professional working proficiency), French (limited working proficiency), Mandarin (elementary proficiency)

Personal interests: theater, photography, architecture, modern art, food, cycling, fitness