Joachim Daiber, PhD

Natural Language Processing, Machine Learning

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	Personal Details
	Born: April 23, 1987 in Bad Waldsee, Germany. Nationality: German.
	Employment
since 06/2019	Tech Lead, Query Understanding at Siri Knowledge Machine Learning and Natural Language Processing Apple, Inc. 1 Apple Park Way, Cupertino.
since 01/2018	Machine Learning Engineer at Siri Knowledge Machine Learning and Natural Language Processing Apple, Inc. 1 Apple Park Way, Cupertino.
	Education
10/2013 – 10/2017	PhD in Machine Translation and Natural Language Processing Statistical Language Processing and Learning Lab. ILLC, University of Amsterdam, The Netherlands.
10/2011-09/2013	Graduation (PhD defense): March 20, 2018. MSc and MA in Natural Language Processing Grade: Summa cum laude, Erasmus Mundus double degree program
	Charles University in Prague, Czech Republic (Master of Science) University of Groningen, The Netherlands (Master of Arts)
10/2007-09/2011	BSc in Computer Science, English Philology Free University of Berlin, Germany
	Scholarships and Awards
2017	O-1 Extraordinary Ability Visa United States of America
2013 – 2015	Marie Skłodowska-Curie Fellowship EXPERT ITN, European Commission
2011 – 2013	Erasmus Mundus Scholarship European Commission
2011 – 2012	Charles University Merit Scholarship Charles University in Prague (prospěchové stipendium)

	Languages and Programming
Languages	German (native), English (fluent), Spanish (conversational), Dutch (basic).
Advanced	Scala, Java, Python/NumPy, Bash, LATEX, JavaScript, CSS.
Intermediate to Basic	Perl, Haskell, PHP, TensorFlow, C, C++, Objective-C, Go.
	Professional Experience (R&D)
03-05/2017	PhD Intern, Lattice Data/Apple Menlo Park, USA. 3 months, full time.
08/2016	PhD Intern, Unbabel Lisbon, Portugal. 1 month, full time.
2010 – 2011	Research Assistant in the Language Technology Lab German Research Center for Al. Berlin, Germany. 16 months, part time.
10-12/2010	Intern, Natural Language Processing
	vionto GmbH, Berlin. 3 months, full time.
2012	Participant, Google Summer of Code 2012
	Organization: DBpedia Spotlight. Project: Implementation of an efficient probabilistic model for entity linking.
	Teaching and Mentorship
2014 – 2015	Teaching Assistant, Natural Language Processing 1 Prof. Ivan Titov, two iterations of the course.
2014 – 2016	Teaching Assistant, Natural Language Processing 2 Prof. Khalil Sima'an and Dr. Wilker Aziz, three iterations of the course.
2016	Co-supervision of Master thesis (Master of AI) Title: Syntax-Based Markov Models for Word Alignment; with Prof. Khalil Sima'an.
2015	Supervision of student project (Master of AI) Title: Splitting German Compounds with Word Embeddings; with Dr. Stella Frank.
2014-2015	Mentor, Google Summer of Code Various information extraction and NLP projects for DBpedia Spotlight.
	Summer Schools and Research Visits
09/2015	Machine Translation Marathon 2015 Proposed and lead project: Better unsupervised processing of compound words. Prague, Czech Republic.
08/2014	European Summer School in Logic, Language and Information Tübingen, Germany.
07/2012	Lisbon Machine Learning Summer School (LxMLS) Lisbon, Portugal.

05-07/2016 **Visiting Researcher, Dublin City University** Dublin, Ireland. 3 month, full time.

08/2015-09/2015 Visiting Researcher, University of Saarbrücken

Saarbrücken, Germany. 2 month, full time.

2012 Visiting Researcher, DBpedia

Web-based Systems Group (DBpedia project), Free University of Berlin.

Selected Publications (see Google Scholar)

Books

Joachim Daiber. Typologically robust statistical machine translation: Understanding and exploiting differences and similarities between languages in machine translation. ILLC dissertation series DS-2018-05. University of Amsterdam, 2018. ISBN 978-94-028-0947-3

Peer-Reviewed Articles: Machine Translation

- Joachim Daiber, Miloš Stanojević, and Khalil Sima'an. Universal reordering via linguistic typology. In *Proceedings of COLING 2016, the 26th International Conference on Computational Linguistics*, Osaka, Japan, Dec 2016b
- Joachim Daiber, Miloš Stanojević, Wilker Aziz, and Khalil Sima'an. Examining the relationship between preordering and word order freedom in machine translation. In *Proceedings of the First Conference on Machine Translation, Volume 1: Research Papers*, pages 118–130, Berlin, Germany, Aug 2016a
- Joachim Daiber and Khalil Sima'an. Machine translation with source-predicted target morphology. In *Proceedings of the 15th Machine Translation Summit (MT Summit 2015)*, pages 283–296, Miami, USA, 2015
- Joachim Daiber, Lautaro Quiroz, Roger Wechsler, and Stella Frank. *Proceedings of the 1st Deep Machine Translation Workshop*, chapter Splitting Compounds by Semantic Analogy, pages 20–28. ÚFAL MFF UK, 2015
- Joachim Daiber and Khalil Sima'an. *Proceedings of the 1st Deep Machine Translation Workshop*, chapter Delimiting Morphosyntactic Search Space with Source-Side Reordering Models, pages 29–38. ÚFAL MFF UK, 2015

Peer-Reviewed Articles: Entity Extraction

- Joachim Daiber, Max Jakob, Chris Hokamp, and Pablo N. Mendes. Improving efficiency and accuracy in multilingual entity extraction. In *Proceedings of the 9th International Conference on Semantic Systems*, I-SEMANTICS '13, pages 121–124, New York, NY, USA, 2013. ACM
- Pablo N. Mendes, Joachim Daiber, Rohana Rajapakse, Felix Sasaki, and Christian Bizer. Evaluating the impact of phrase recognition on concept tagging. In *Proceedings of the Eight International Conference on Language Resources and Evaluation (LREC'12)*, Istanbul, Turkey, may 2012
- Pablo N. Mendes, Joachim Daiber, Max Jakob, and Christian Bizer. Evaluating dbpedia spotlight for the tac-kbp entity linking task. In *Proceedings of the TACKBP 2011 Workshop*, volume 116, pages 118–120, 2011

Peer-Reviewed Articles: Dependency Parsing

Joachim Daiber and Rob van der Goot. The Denoised Web Treebank: Evaluating dependency parsing under noisy input conditions. In *Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC 2016)*, May 2016