Joachim Daiber

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Personal Details

Born: April 23, 1987 in Bad Waldsee, Germany. Nationality: German.

Education

2013-2017 PhD Student in Machine Translation and Natural Language Processing

Statistical Language Processing and Learning Lab. ILLC, University of Amsterdam, The Netherlands. Supervisors: Prof. Khalil Sima'an and Dr. Wilker Aziz.

2011-2013 European Masters Program in Language and Communication Technologies

Grade: Summa cum laude

Charles University in Prague, Czech Republic (Master of Science) University of Groningen, The Netherlands (Master of Arts)

Thesis: Robust parsing of noisy content (with Prof. Gertjan van Noord, Dr. Dan Zeman)

- statistical methods in NLP
- statistical machine translation

• machine learning

• morphology, syntax and semantics

2007 – 2011 Bachelor of Science in Computer Science, English

Free University of Berlin, Germany

Thesis: Candidate selection and evaluation in DBpedia Spotlight

- data structures and algorithms
- theoretical computer science
- semantic web

- parallel programming
- computer and software engineering
- English and general linguistics

Scholarships and Awards

2013-2016 Marie Sklodowska-Curie Fellowship

European Commission

2011-2013 Erasmus Mundus Scholarship

European Commission

2011 – 2012 Merit Scholarship (prospchové stipendium)

Charles University in Prague

Languages

German (native), English (fluent), Spanish (conversational), Dutch (basic).

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Teaching

2014-2015 Teaching Assistant, Natural Language Processing 1

Prof. Ivan Titov.

2014-2016 Teaching Assistant, Natural Language Processing 2

Prof. Khalil Sima'an and Dr. Wilker Aziz.

2016 Co-supervision of Master thesis (Master of AI)

Title: Tree-Structured Markov Models for Word Alignment. With Prof. Khalil Sima'an.

2015 Supervision of student project project in Al

Project title: Splitting German Compounds with Word Embeddings. With Dr. Stella Frank.

Research and Development

2016 Research Intern, Unbabel

Lisbon, Portugal. 1 month, full time.

2015 Machine Translation Marathon

Proposed and executed project: *Better unsupervised processing of compound words.* Prague, Czech Republic.

2014-2015 Mentor: Google Summer of Code

Organization: DBpedia Spotlight.

2014 European Summer School in Logic, Language and Information

Tübingen, Germany.

2012 Lisbon Machine Learning Summer School

Lisbon, Portugal.

2012 Participant: Google Summer of Code 2012

Organization: DBpedia Spotlight.

Project: Implementation of an efficient probabilistic model for entity linking.

2012 Visiting Research Intern

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

2010 – 2011 Research Assistant

Language Technology Lab.

German Research Center for Artificial Intelligence (DFKI), Berlin. 16 months, part time.

2010 Intern in Computational Linguistics and NLP

vionto GmbH, Berlin. 3 months, full time.

Computer and Programming Skills

Advanced Scala, Java, Python/NumPy, Bash, LaTeX, JavaScript, CSS.

Intermediate Perl, Haskell, PHP, TensorFlow.

Basic C, C++, Objective-C.

Publications

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, December 2016b. Association for Computational Linguistics
- 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, August 2016a. Association for Computational Linguistics
- Joachim Daiber and Khalil Simaan. 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. URL http://aclweb.org/anthology/W15-5703
- 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. URL http://aclweb.org/anthology/W15-5704

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. ISBN 978-1-4503-1972-0. doi: 10.1145/2506182.2506198. URL http://doi.acm.org/10.1145/2506182.2506198
- Pablo 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. European Language Resources Association (ELRA). ISBN 978-2-9517408-7-7

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)*, Paris, France, May 2016. European Language Resources Association (ELRA). ISBN 978-2-9517408-9-1