

MILOŠ STANOJEVIĆ

POSTDOC AT THE UNIVERSITY OF EDINBURGH

RESEARCH INTERESTS

- Probabilistic Models of Natural Language
- Structured Prediction
- Deep Learning
- Incremental Syntactic Parsing of Natural Language
- Mildly Context-Sensitive grammar formalisms (CCG, MCFG, Minimalist Grammars)
- Unsupervised Learning
- Machine Translation
- Formal Linguistic Universals

EDUCATION

- Feb 2013 - Dec 2017 **Ph.D at the *University of Amsterdam, ILLC***
Thesis topic: [Permutation Forests for Modeling Word Order in Machine Translation](#)
Supervisors: Prof. Dr. Khalil Sima'an and Dr. Wilker F. Aziz
- Oct 2010 - Feb 2013 **European Masters in Language and Communication Technology**
Charles University in Prague* and *University of Malta
Thesis topic : [Large-Scale Discriminative Training for Machine Translation into Morphologically-Rich Languages](#)
Supervisor : Dr. Ondřej Bojar
- Oct 2006 - Aug 2010 **B.Sc. in Electrical Engineering**
University of Niš, Serbia
Thesis topic : [Optimization of Scala programs](#)

WORK EXPERIENCE

- Nov 2017 - **PostDoc at University of Edinburgh**
with Prof. Mark Steedman
Institute for Logic, Language and Computation
- July - Oct 2017 **Internship at Nuance (now part of Microsoft)**
with Prof. Edward Stabler
Natural Language and AI group, Sunnyvale, California

PUBLICATIONS

- EMNLP 2021** [**A Root of a Problem: Optimizing Single-Root Dependency Parsing**](#)
under submission *Conference on Empirical Methods in Natural Language Processing*
Miloš Stanojević and Shay Cohen
- CL journal 2021** [**Formal Basis of a Language Universal**](#)
Computational Linguistics Journal
Miloš Stanojević and Mark Steedman
- IWCS 2021** [**Computing All Quantifier Scopes with CCG**](#)
International Conference on Computational Semantics
Miloš Stanojević and Mark Steedman
- CMCL 2021** [**Modeling incremental language comprehension in the brain with Combinatory Categorical Grammar**](#)
Workshop on Cognitive Modeling and Computational Linguistics
Miloš Stanojević, Shohini Bhattachali, Donald Dunagan, Luca Campanelli, Mark Steedman, Jonathan Brennan, John Hale
- CASE 2021** [**Modality and Negation in Event Extraction**](#)
Workshop on Challenges and Applications of Automated Extraction of Socio-political Events from Text
*Sander Bijl de Vroe, Liane Guillou, **Miloš Stanojević**, Nick McKenna and Mark Steedman*
- ACL 2020** [**Max-Margin Incremental CCG Parsing**](#)
Annual Meeting of the Association for Computational Linguistics
Miloš Stanojević and Mark Steedman
- IWPT 2020** [**Span-Based LCFRS-2 Parsing**](#)
The 16th International Conference on Parsing Technologies
Miloš Stanojević and Mark Steedman
- CUNY 2020** [**Predictive Processing of Coordination in CCG**](#)
CUNY Human Sentence Processing Conference
Miloš Stanojević, John Hale and Mark Steedman
- ACL 2019** [**Wide-Coverage Neural A* Parsing for Minimalist Grammars**](#)
Annual Meeting of the Association for Computational Linguistics
*John Torr, **Miloš Stanojević**, Mark Steedman and Shay Cohen*

- FG 2019** [On the Computational Complexity of Head Movement and Affix Hopping](#)
Conference on Formal Grammar
Miloš Stanojević
- NAACL 2019** [CCG Parsing Algorithm with Incremental Tree Rotation](#)
Conference of the North American Chapter of the Association for Computational Linguistics
Miloš Stanojević and Mark Steedman
- CMCL 2019** [The active-filler strategy in a move-eager left-corner Minimalist Grammar parser](#)
Workshop on Cognitive Modeling and Computational Linguistics
Tim Hunter, **Miloš Stanojević** and Edward Stabler
- CogACLL 2018** [A Sound and Complete Left-Corner Parsing for Minimalist Grammars](#)
Workshop on Cognitive Aspects of Computational Language Learning and Processing
Miloš Stanojević and Edward Stabler
- PROPOR 2018** [SICK-BR: a Portuguese corpus for inference](#)
International Conference on Computational Processing of the Portuguese Language
Livy Real, Ana Rodrigues, Andressa Vieira e Silva, Beatriz Albiero, Bruna Thalenberg, Bruno Guide, Cindy Silva, Guilherme de Oliveira Lima, Igor CS Câmara, **Miloš Stanojević**, Rodrigo Souza, Valeria de Paiva
- PhD Thesis 2017** [Permutation Forests for Modeling Word Order in Machine Translation](#)
University of Amsterdam 2017
Miloš Stanojević
- EMNLP 2017** [Neural Discontinuous Constituency Parsing](#)
Conference on Empirical Methods in Natural Language Processing
Miloš Stanojević and Raquel G. Alhama
- ACL 2017 short paper** [Alternative Objective Functions for Training MT Evaluation Metrics](#)
Annual Meeting of the Association for Computational Linguistics
Miloš Stanojević and Khalil Sima'an
- LACL 2016** [Minimalist Grammar Transition-Based Parsing](#)
Logical Aspects of Computational Linguistics
Miloš Stanojević
- COLING 2016** [Hierarchical Permutation Complexity for Word Order Evaluation](#)
International Conference on Computational Linguistics
Miloš Stanojević and Khalil Sima'an

- COLING 2016** [Universal Reordering via Linguistic Typology](#)
International Conference on Computational Linguistics
Joachim Daiber, **Miloš Stanojević** and Khalil Sima'an
- WMT 2016** [Examining the Relationship between Preordering and Word Order Freedom in Machine Translation](#)
Conference on Machine Translation
Joachim Daiber, **Miloš Stanojević**, Wilker Aziz and Khalil Sima'an
- WMT 2016** [Results of the WMT16 Metrics Shared Task](#)
Conference on Machine Translation
Ondřej Bojar, Yvette Graham, Amir Kamran and **Miloš Stanojević**
- WMT 2016** [Results of the WMT16 Tuning Shared Task](#)
Conference on Machine Translation
Bushra Jawaid, Amir Kamran, **Miloš Stanojević** and Ondřej Bojar
- EMNLP 2015** [Reordering Grammar Induction](#)
Conference on Empirical Methods in Natural Language Processing
Miloš Stanojević and Khalil Sima'an
- PBML 2015** [Evaluating MT systems with BEER](#)
The Prague Bulletin of Mathematical Linguistics
Miloš Stanojević and Khalil Sima'an
- WMT 2015** [BEER 1.1: ILLC UvA submission to metrics and tuning task](#)
Workshop on Machine Translation
Miloš Stanojević and Khalil Sima'an
- WMT 2015** [Results of the WMT15 Metrics Shared Task](#)
Workshop on Machine Translation
Miloš Stanojević, Amir Kamran, Philipp Koehn and Ondřej Bojar
- WMT 2015** [Results of the WMT15 Tuning Shared Task](#)
Workshop on Machine Translation
Miloš Stanojević, Amir Kamran and Ondřej Bojar
- SSST 2014** [Evaluating Word Order Recursively over Permutation-Forests](#)
Workshop on Syntax, Semantics and Structure in Statistical Translation
Miloš Stanojević and Khalil Sima'an
- WMT 2014** [BEER: BETter Evaluation as Ranking](#)
Workshop on Machine Translation
Miloš Stanojević and Khalil Sima'an

- EMNLP 2014 short paper** [Fitting Sentence Level Translation Evaluation with Many Dense Features](#)
Conference on Empirical Methods in Natural Language Processing
Miloš Stanojević and Khalil Sima'an
- WMT 2012** [Selecting data for English-to-Czech machine translation](#)
Workshop on Machine Translation
Aleš Tamchyna, Petra Galuščáková, Amir Kamran, **Miloš Stanojević**,
Ondřej Bojar

CONTRIBUTIONS TO COMMUNITY

Reviewing for conferences: ACL, NAACL, EMNLP, CoNLL, AACL

Reviewing for journals: CL, NLE, LREC, MT, LM

Organizing shared tasks: WMT Metrics and WMT Tuning tasks in 2015 and 2016

(Co-)SUPERVISION

2021 – in progress University of Edinburgh MSc thesis	Seth Aycock SuperTagging approach to Syntactic Machine Translation
2019 University of Edinburgh undergraduate project	Chiehmin Wei – accepted for PhD studies at Cornell Zero-Shot and Universal Parsing with Multilingual Contextualized Embeddings
2018 – 2019 University of Edinburgh PhD thesis	John Torr – accepted at Apple Research, Cambridge Wide-Coverage Statistical Parsing with Minimalist Grammars

TEACHING

2012/2013 summer University of Amsterdam	TA Statistical Structure in NLP
2013/2014 winter University of Amsterdam	TA Elements of Language Processing
2014/2015 summer University of Amsterdam	TA project course on Monte Carlo Inference for PCFG
2015/2016 summer University of Amsterdam	TA Natural Language Processing 2
2016/2017 summer University of Amsterdam	TA Natural Language Processing 2

INVITED TALKS

Nuance NL & AI lab
Sunnyvale, 2017

Learning Reordering Grammars

Rich Parsing Workshop
Amsterdam, 2016

Minimalist Grammar Transition-Based Parsing

MT Marathon
Prague, 2015

Discriminative Training for Statistical Machine Translation

SCHOLARSHIPS

2010 - 2012

Erasmus Mundus scholarship

2004 - 2010

Scholarship from the Ministry of Science and Technological Development of Serbia

awarded for taking part in international mathematical competitions

2002 - 2004

Scholarship from the Ministry of Education of Serbia

awarded for taking part in international mathematical competition
