Mathieu DEHOUCK

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EDUCATION

Ph.D student in Computer Sciences
October 2015 - May 2019
Université des Sciences et Technologies de Lille (France), Magnet team (Inria), Cristal,
Supervisor: Pascal Denis, Marc Tommasi,
Dependency Parsing, Machine Learning, Natural Language Processing.

Master degree in Computer Sciences
September 2014 - June 2015,
Université des Sciences et Technologies de Lille (France),
Bioinformatics, Machine Learning, Agent Based Simulations.
September 2013 - June 2014,
Aarhus Universitet (Aarhus, Denmark),
Bioinformatics, Combinatronics, Quantum Computation, Data structures.

Bachelor's degree in Computer Sciences
September 2012 - June 2013,
Université des Sciences et Technologies de Lille (France),
Computer Science, Programming languages.
September 2010 - June 2012,
Lycée Wallon (preparatory school) (Valenciennes, France),
Mathematics, Physics, Computer Science.

Lisbon Machine Learning School (LXMLS)
August 2017, Lisbon.

European Summer School in Language, Logic and Informatics (ESSLLI)
August 2014, Tübingen,
August 2013, Düsseldorf.

EXPERIENCE

Post-Doctoral Position University of A Coruña July 2019-Present
Data augmentation for dependency parsing of low resource languages.
In the FastParse team.

Teachings University of Lille 3 September 2016-Mai 2018
Foundation of Computation (3rd year Bachelor degree) (Fall 2017),
Projects in Computer Science for Humanities (2nd year Bachelor degree) (Fall 2016, Fall 2017),
Principles of Network Technologies (1nd year Bachelor degree) (Spring 2017, Spring 2018),
Computer Science and Technologies (2nd year Bachelor degree) (Spring 2017).

Invited Researcher USC, Los Angeles September 2016 and August 2017
Research project on multitask learning for Natural Language Processing.

Internship Magnet team, Inria March-September 2015
Research project on dependency parsing for natural languages. The project focused on applying several techniques of graph-based semi-supervised learning to dependency parsing.

Google Summer of Code ESUG, RMoD Summer 2013
Analysis of existing code, refactoring and testing, for increasing the scalability of a software analysis framework.

Internship RMoD team, Inria Spring 2013
Analysis and implementation of layout algorithms in a software analysis and visualisation framework.

SKILLS

Programming skills in Python, OCaml, Scheme, Java, C.
French as first language, fluent English (100% on TOEIC), intermediate Spanish and Galician, basic Japanese and Danish, beginner Chinese, Arabic, Hebrew, Amharic, Yiddish, Ducth, German, Czech.

PUBLICATIONS

2020

Mark Anderson, Mathieu Dehouck and Carlos Gómez-Rodríguez. "Efficient EUD Parsing". IWPT 2020 shared task, Covid-19 virtual venue.

2019

Mathieu Dehouck. "Multi-Lingual Dependency Parsing : Word Representation and Joint Training for Syntactic Analysis". Ph.D dissertation.

Mathieu Dehouck and Pascal Denis. "Phylogenetic Multi-Lingual Dependency Parsing". In: Proceedings of North American chapter of Association of Computational Linguistics (NAACL). Minneapolis, United Sates.

2018

Mathieu Dehouck and Pascal Denis. "A Framework for Understanding the Role of Morphology in Universal Dependency Parsing". In: Proceedings of Empirical Methods in Natural Language Processing (EMNLP). Brussels, Belgium.

2017

Mathieu Dehouck and Pascal Denis. "Delexicalized Word Embeddings for Cross-lingual Dependency Parsing". In: Proceedings of the European Association for Computational for Computational Linguistics (EACL). Valencia, Spain.

Mathieu Dehouck and Pascal Denis. "Learning Morpho-Syntactic Attributes Representation for Cross-Lingual Dependency Parsing". Abstract and Presentation at CLIN27 KU Leuven, Belgium.

2013

Mathieu Dehouck, Usman Bhatti, Alexandre Bergel, and Stéphane Ducasse. "Pragmatic Visualizations for Roassal: a Florilegium". In International Workshop on Smalltalk Technologies. Annecy, France.

INVITED TALKS

"Morpho-Syntax Matters", STL Seminar, Université de Lille, France, December 2018