PhD student in Natural Language Processing In radina-dobreva @sms.ed.ac.uk | # radidd.github.io | O radidd | in radina-dobreva | # @radinadobreva |

Research interests: NLP. language grounding in vision. multilinguality

Education _

PhD in Natural Language Processing

University of Edinburgh

- Supervisors: Dr Alexandra Birch and Prof Frank Keller
- My research interests include language grounding in vision, interpretability of NLP models and multilinguality.
- Member of the Centre for Doctoral Training in Natural Language Processing and the Institute for Language, Cognition and Computation.

MSc Speech and Language Processing, with Distinction

University of Edinburgh

- A programme combining computer science, machine learning and linguistics.
- MSc Project: Exploiting Predictable Document Sub-structure in Neural Machine Translation (NMT)
 - Supervisors: Dr Rachel Bawden, Prof Bonnie Webber, Dr Annie Louis
 - A project focusing on using the structure of documents to improve translation. As part of this project I compiled a corpus of parallel data, researched possible ways to incorporate structural information, implemented the selected method, conducted experiments to evaluate the proposed models, and analysed and reported the results.

BA(Hons) Linguistics, First class degree

University of Manchester

- A broad programme covering both theoretical and applied aspects of linguistics, such as semantics, syntax, historical linguistics and forensic linguistics, among others.
- Undergraduate dissertation: The Causative Alternation in Bulgarian
 Supervisor: Prof Delia Bentley
- Study abroad: National University of Singapore, January 2017 May 2017

Employment _

Research Software Engineer

University of Edinburgh

- Worked on projects focusing on machine translation.
- Responsibilities included building machine translation models using Marian NMT and packaging them for use by the project partners.

Research Assistant

University of Edinburgh

- Worked on a project focusing on low-resource machine translation in the news domain (GoURMET).
- Responsibilities included gathering parallel data for machine translation, creating machine translation models and packaging them for use by the project partners.

Skills _____

Programming languagesPython, BashTools and packagesPyTorch, Numpy, Marian NMT, Docker, Git, LatexNatural languagesEnglish (fluent), Bulgarian (native)

September 2018 - August 2019

September 2015 - June 2018

April 2020 - August 2020

October 2019 - March 2020

September 2020 - Present

Radina Dobreva

Awards and achievements _____

The School of Philosophy, Psychology and Language Sciences Highly Commended Dissertation	
Award, for my dissertation submitted for the MSc Speech and Language Processing degree —	2019
University of Edinburgh	
Outstanding Academic Achievement Award, awarded to the top 0.5% undergraduate students	2010
graduating from the university — University of Manchester	2018
Montfollick prize , for highest final year mark in the subject area of Linguistics and English Language in academic year 2017/18 — <i>University of Manchester</i>	2018
Bronze medal, 13th International Olympiad in Linguistics 2015 — Blagoevgrad, Bulgaria	2015
Additional training	

11th Lisbon Machine Learning School – LxMLS 2021, summer school – Lisbon, Portugal (Online)

Publications _____

Ulrich Germann, Roman Grundkiewicz, Martin Popel, **Radina Dobreva**, Nikolay Bogoychev, and Kenneth Heafield. Speed-optimized, Compact Student Models that Distill Knowledge from a Larger Teacher Model: the UEDIN-CUNI Submission to the WMT 2020 News Translation Task. In *Proceedings of the Fifth Conference on Machine Translation*, pages 191–196, Online, November 2020. Association for Computational Linguistics

2021

Rachel Bawden, Alexandra Birch, **Radina Dobreva**, Arturo Oncevay, Antonio Valerio Miceli Barone, and Philip Williams. The University of Edinburgh's English-Tamil and English-Inuktitut Submissions to the WMT20 News Translation Task. In *Proceedings of the Fifth Conference on Machine Translation*, pages 92–99, Online, November 2020. Association for Computational Linguistics

Radina Dobreva, Jie Zhou, and Rachel Bawden. Document Sub-structure in Neural Machine Translation. In *Proceedings of the 12th Language Resources and Evaluation Conference*, pages 3657–3667, Marseille, France, May 2020. European Language Resources Association