Daniil Sorokin

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Keywords: natural language processing, machine learning, semantic analysis, knowledge bases				
	Work Experience			
04.2015 – now	Researcher, UKP Lab, TU Darmstadt, Germany. Neural network approaches to knowledge base question answering Teaching the course "Foundations of Natural Language Processing with Python" Supervised 7 bachelor and master theses Organizing a regular research seminar and guest talks Candidate evaluation for PhD- and PostDoc-level positions			
11.2018 - 01.2019	Research Intern, Factmata Ltd., London, UK. o Automatic evidence-based fact checking and claim validation			
01.2014 - 03.2015	Researcher, Research center SFB 833, University of Tübingen, Germany. o Automatic semantic processing of German and English noun compounds			
05.2012 - 12.2013	Research Assistant, Computational Linguistics department, University of Tübingen, Germany. o Teaching assistant for the course "Programming with Java" o Development of RESTful web services for linguistic resources			
10.2010 - 08.2011	 Software Engineer, PROMT Ltd., Saint Petersburg, Russia. Construction of multi-lingual parallel corpora from web data Stress- and usability-tests of machine translation tools 			
	Education			
04.2015 - (06.2019)	PhD student in Computer Science, TU Darmstadt, Germany. Supervisor: Prof. Dr. Iryna Gurevych, UKP Lab Topic: Lexical-Semantic and World Knowledge for Semantic Parsing			
10.2011 - 01.2014	M.A. in Computational Linguistics , <i>University of Tübingen</i> , Germany, GPA: 4.0 (German $1.1 / 1.0$). Thesis: A Machine Learning Approach to the Semantic Classification of German Noun Compounds			
09.2007 - 07.2011	B.A. in Computational Linguistics , Saint Petersburg State University, Russia, GPA: 4.0 (Russian 4.9 $/$ 5.0). Thesis: Automatic Identification of Morphological Types of Geographical Names and Their Representation in a Geo-information System			
Summer schools	Machine Learning Summer School (2016, Max Plank Institute), The European Summer School in Logic, Language and Information (ESSLLI 2014)			
	Skills			

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Programming languages	Main: Python, Java	-	Javascript, XML, CSS, LATEX, SPARQL, SQL, R, Haskell, Scala
Main frameworks	PyTorch, NumPy, Keras, TensorFlow, Flask, Weka, Stanford CoreNLP		
Languages	English, German, Russian	Misc.	Climbing, cycling, skiing
Awards	Outstanding Reviewer (ACL, 2018), Teaching Award in Computer Science		

(TU Darmstadt, 2017), Best Challenge Paper (ESWC, 2017), Fully-funded Master's scholarship (DAAD, 2011)

Selected Invited Talks

- 2019 Encoding Knowledge with Graph Neural Networks, NLP Seminar of the Department of Computing, Imperial College London.
 - Graph Neural Networks for Knowledge Base Question Answering, South England NLP Meetup of the UCL Machine Reading group, Alan Turing Institute, London.
- 2018 Graph Neural Networks for Knowledge Base Question Answering, NLIP Seminar Series, Computer Laboratory, University of Cambridge.
- 2017 Knowledge Base Question Answering, Natural Language Processing and the Web Seminar, TU Darmstadt.

Main Publications

Daniil Sorokin and Iryna Gurevych. "Interactive Instance-based Evaluation of Knowledge Base Question Answering". In: *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP 2018): System Demonstrations.* Brussels, Belgium, Nov. 2018, pp. 114–119. URL: http://aclweb.org/anthology/D18-2020.

Daniil Sorokin and Iryna Gurevych. "Mixing Context Granularities for Improved Entity Linking on Question Answering Data across Entity Categories". In: *Proceedings of the Seventh Joint Conference on Lexical and Computational Semantics* (*SEM 2018 @ NAACL 2018). New Orleans, LA, U.S., June 2018, pp. 65–75. URL: http://aclweb.org/anthology/S18-2007.

Daniil Sorokin and Iryna Gurevych. "Modeling Semantics with Gated Graph Neural Networks for Knowledge Base Question Answering". In: *Proceedings of COLING 2018*, the 27th International Conference on Computational Linguistics. Santa Fe, NM, U.S., Aug. 2018, pp. 3306–3317. URL: http://aclweb.org/anthology/C18-1280.

Daniil Sorokin and Iryna Gurevych. "Context-Aware Representations for Knowledge Base Relation Extraction". In: *Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (EMNLP 2017)*. Copenhagen, Denmark, Sept. 2017, pp. 1785–1790. URL: http://aclweb.org/anthology/D17-1188.

Daniil Sorokin and Iryna Gurevych. "End-to-end Representation Learning for Question Answering with Weak Supervision". In: **ESWC 2017** Semantic Web Challenges. Portoroz, Slovenia, 2017.

Daniil Sorokin, Corina Dima, and Erhard Hinrichs. "Classifying Semantic Relations in German Nominal Compounds using a Hybrid Annotation Scheme". In: *Journal of Cognitive Science* 16.3 (2015), pp. 260–285.

Google Scholar profile: https://scholar.google.de/citations?user=PRX-B-oAAAAJ

Question Answering Demo: http://semanticparsing.ukp.informatik.tu-darmstadt.de:5000/question-answering/