

# Daniil Sorokin

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Keywords: natural language processing, machine learning, semantic analysis, knowledge bases

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## 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.**
- Automatic evidence-based fact checking and claim validation
- 01.2014 – 03.2015 **Researcher, Research center SFB 833, University of Tübingen, Germany.**
- Automatic semantic processing of German and English noun compounds
- 05.2012 – 12.2013 **Research Assistant, Computational Linguistics department, University of Tübingen, Germany.**
- Teaching assistant for the course “Programming with Java”
  - 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

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## 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, University of Tübingen, 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)

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## Skills

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| Programming languages | Main: Python, Java   | Experience | Javascript, XML, CSS, $\text{\LaTeX}$ , with: SPARQL, SQL, R, Haskell, Scala |
| Main frameworks       | PyTorch, NumPy, TensorFlow, Keras, 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) |            |  |

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## 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.

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## 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*. DEMO URL: <http://semanticparsing.ukp.informatik.tu-darmstadt.de:5000/question-answering/>. 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.

Google Scholar profile (complete publications list): <https://scholar.google.de/citations?user=PRX-B-oAAAAJ>

References are available upon request.