

# ALEKSANDR PEREVALOV

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Birthplace: Kirov, Russia ◊ Birthdate: June 9th

Current location: 06366, Germany ◊ GitHub: <https://github.com/Perevalov>

## EDUCATION

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**Anhalt University of Applied Sciences, Germany**

*September 2019 - September 2020*

Master of Data Science (double degree)

GPA: 1.0 (max. 1.0)

**Perm State Technical University, Russia**

*September 2018 - September 2020*

Master in Software Engineering

GPA: 5 (max. 5)

**Perm State Technical University, Russia**

*September 2014 - September 2018*

Bachelor in Software Engineering

GPA: 4.73 (max. 5)

## CAREER OBJECTIVE

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To work in the field of Web Engineering as a researcher with possibility in future to be a research group leader. Preferable focus: innovative solutions for industry and government.

## FUNDED PROJECTS

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**Language Agnostic Semantic Search driven by Knowledge Graphs** *Project Lead*

Leading a 2-year research project in cooperation with the University of Paderborn, Springer Nature, and Software Campus. The aim is focused on developing efficient and language-agnostic methods for semantic search over knowledge graphs. Funded by BMBF (100,000 EUR).

## TECH SKILLS (MOST USED STAY FIRST)

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**OS**

Linux, Windows

**Languages**

Python, SPARQL, JavaScript, SQL

**DevOps**

Docker, Nginx, MLFlow, W&B, Gunicorn

**Frameworks & Libs**

FastAPI, ReactJS, Flask // Pandas, NumPy // Tensorflow, NLTK, Spacy

**DBMS**

Stardog, Virtuoso, PostgreSQL, MongoDB, MySQL

**Tools**

Apache Airflow, Latex (Overleaf)

## WORK EXPERIENCE

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**Foresight LLC, Perm, Russia**

March 2018 – August 2020

*Software Developer*

Developing core functionality of a BPM system in accordance with the BPMN 2.0 notation. The users of the system are large Russian Oil & Gas companies and government ministries. Technologies: C++, SQL, Linux, Azure DevOps, Git.

**Anhalt University of Applied Sciences, Köthen, Germany**

August 2020 – Present

*Research Assistant (until March 2022) and PhD student*

Teaching & Supervision: “Question Answering and Chatbots” course. Working on PhD thesis: “Methods to enhance the accessibility of question-answering systems” in cooperation with Paderborn University.

Developing Question Answering components and tools for the Chatbot infrastructure of the ITZBund within a research project.

## LANGUAGES

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|----------------|---------------------------------------|
| <b>Russian</b> | Native language                       |
| <b>English</b> | Full professional proficiency (B2/C1) |
| <b>German</b>  | Intermediate (A2/B1)                  |

## SELECTED PUBLICATIONS

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1. Aleksandr Perevalov, Andreas Both, Dennis Diefenbach, and Axel-Cyrille Ngonga Ngomo. Can machine translation be a reasonable alternative for multilingual question answering systems over knowledge graphs? In *Proceedings of the Web Conference*, 2022
2. Aleksandr Perevalov, Dennis Diefenbach, Ricardo Usbeck, and Andreas Both. QALD-9-plus: A multilingual dataset for question answering over DBpedia and Wikidata translated by native speakers. In *Proceedings of the 16th IEEE International Conference on Semantic Computing (ICSC)*, 2022
3. Andreas Both, Paul Heinze, Aleksandr Perevalov, Johannes Richard Bartsch, Rostislav Iudin, Johannes Rudolf Herkner, Tim Schrader, Jonas Wunsch, René Gürth, and Ann Kristin Falkenhain. Quality assurance of a german COVID-19 question answering systems using component-based microbenchmarking. In *Proceedings of the Fifteenth ACM International Conference on Web Search and Data Mining, WSDM '22*, page 15611564, New York, NY, USA, 2022. Association for Computing Machinery
4. Aleksandr Gashkov, Aleksandr Perevalov, Maria Eltsova, and Andreas Both. Improving question answering quality through language feature-based sparql query candidate validation. In *The Semantic Web*, pages 217–235, Cham, 2022. Springer International Publishing
5. Aleksandr Perevalov, Xi Yan, Liubov Kovriguina, Longquan Jiang, Andreas Both, and Ricardo Usbeck. Knowledge graph question answering leaderboard: A community resource to prevent a replication crisis, 2022
6. Aleksandr Perevalov and Andreas Both. Augmentation-based answer type classification of the SMART dataset. In *Proceedings of the SeMantic Answer Type prediction task (SMART) at ISWC 2020, November 5th, 2020*, volume 2774, pages 1–9. CEUR-WS.org, 2020
7. Aleksandr Perevalov and Andreas Both. Improving answer type classification quality through combined question answering datasets. In *International Conference on Knowledge Science, Engineering and Management*, pages 191–204. Springer, 2021

## SUPERVISION

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- (2023) Supervisor of the Master Thesis “Eine Studie zu Relation Detection und dessen Qualitätsverbesserung für Knowledge Graph Questions Answering” by A. Graap (successfully defended).
- (2022) Mentor in the Google Summer of Code project “Extending the WikidataComplete plugin for enabling data donations, recommendations, and gamification” by Lalit Suthar.
- (2021) Supervisor of the Master Thesis “Comparison of lexical features between human-human and human-chatbot interaction” by A. Vysokov (successfully defended).
- (2021) Mentor in the Google Summer of Code project “Modular DBpedia Chatbot” by J. Desai.
- (2021) Mentor in the Google Summer of Code project “Gamified Knowledge Base Completion Plugin for Wikibase/Wikidata” by D. Khanna.

## **FURTHER EDUCATION**

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- (2018) Course certificate “Introduction to Machine Learning”.
- (2020) Course certificate “Neural Networks and Deep Learning”.
- (2021) Participant in the masterclass: “The Art and Craft of Designing and Facilitating Learning Spaces”, Aarhus, Denmark.
- (2021) Course certificate “Web of Data”
- (2021) Course certificate “Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization”
- (2022/2023) Course participation “Academic Writing in English (B1/B2)”
- (2023) Course certificate “Psycholinguistics”

## **ACHIEVEMENTS AND PRIZES**

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- (2018) Best paper award in the annual Perm State Technical University’s conference with the work on improvement of CMU Sphinx system’s speech recognition quality.
- (2018) TOP10 in the Machine Learning competition (Russian Artificial Intelligence forum): solving production time prediction task based on data from NLMK group.
- (2018) Participation in the Machine Learning competition by Gazprom (Prediction of oil production rate).
- (2018) Participation in the poster session of the AINL conference with a talk on a dialogue system for a university enrollees.
- (2019) TOP-9 in international data analysis competition Data Mining Cup 2019.
- (2020) Bronze medal (top 9%) on Kaggle.com “Jigsaw Multilingual Toxic Comment Classification” competition
- (2020) 3rd place in SeMantic Answer Type prediction task within ISWC 2020.

## **TEACHING**

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- (WiSe 2020/2021) Practical exercises of the course ”Linked Data & Semantic Web” / ”Question Answering & Chatbots” in the Master program ”Data Science”
- (WiSe 2021/2022) Practical exercises of the course ”Linked Data & Semantic Web” / ”Question Answering & Chatbots” in the Master program ”Data Science”

## **EXTRAS**

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- Sports: I do Snowboarding, Kickboxing, and previously did Motorsports (Go-Karting).
- Creativity: I film and edit videos (mostly – personal VLOGS).
- During Summer 2017, I participated in the Work & Travel USA program.