

# Fedor Sizov

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## Bio

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I am a Computational Linguistics student at Saarland University and a research assistant at the German Research Center for Artificial Intelligence (DFKI). My focus areas include Natural Language Understanding (NLU) and Machine Translation (MT).

## EDUCATION

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<b>Saarland University</b> <i>Bachelor of Science in Computational Linguistics</i>	Saarbrücken, Germany Oct. 2023 – Jun. 2026
<b>Russian University of Humanities</b> <i>Bachelor of Arts in Fundamental and Computational Linguistics</i>	Moscow, Russia Sept. 2019 – Oct. 2023
<b>MIPT Olympiad School</b> <i>Computational Linguistics</i>	Dolgoprudny, Russia Jul. 2017 - Aug. 2017
<b>XIX Summer School in Linguistics</b> <i>Theoretical and Computational Linguistics</i>	Voronovo, Russia Jul. 2017
<b>XVIII Summer School in Linguistics</b> <i>Theoretical and Computational Linguistics</i>	Voronovo, Russia Jul. 2016

## EXPERIENCE

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<b>Research Assistant</b> <i>German Research Center for Artificial Intelligence</i> <ul style="list-style-type: none"><li>As a research assistant, I work on detecting and eliminating translation artifacts in human-or-machine translated texts.</li></ul>	June 2024 – Saarbrücken, Germany
<b>Software Engineer</b> <i>MillionAgents</i> <ul style="list-style-type: none"><li>Developed about 15 parsers in Python for collecting data from different retail store networks: some of parsers were written using requests/lxml, other involved Selenium and DOM scripting</li><li>Introduced unit testing inside the company and added unit tests for majority of company's parsers</li><li>Analyzed HTTP requests of Android applications using Burp Suite proxying and APK decompilation</li><li>Updated and improved schemas in the company's PostgreSQL database</li><li>Made updates to company's Django views</li></ul>	July 2023 – Nov 2023 Moscow, Russia
<b>Software Engineer Intern</b> <i>Yandex</i> <ul style="list-style-type: none"><li>As a part of monitoring and automation development group, I automated a range of hardware lifecycle scenarios such as upgrades and migrations</li></ul>	June 2022 – Sep 2022 Moscow, Russia

## PROJECTS

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<b>Time &amp; Presupposition Support for DRT Extension of NLTK library</b> <ul style="list-style-type: none"><li>Debugged and enhanced an extension by (Kislev, Makarov, Li 2010) which adds time/presupposition support to nltk-drt within the DRT extension for NLTK, under the supervision of Ivan Rygaev.</li><li>Future work: PR the contribution to the official nltk repository</li></ul>	Oct 2021 - Jun 2022
<b>Multidialectal corpus of the Mansi language</b> <ul style="list-style-type: none"><li>Participated in the development of multidialectal morphologically annotated corpus of Mansi language. The research was funded by the RFBR project 18-012-00833A "Dynamics of phonetical and grammatical systems of Ob-Ugric languages".</li></ul>	Jun 2018 – Sep 2019
<b>Morphologically annotated corpus for the Selkup language</b> <ul style="list-style-type: none"><li>With the help of scientists from the Institute of Linguistics, we developed a morphologically annotated corpus for the Selkup language. This involved employing finite-state transducers to annotate morphological structures. Under the guidance of Vladimir Plungian, a linguistics professor at Moscow State University and a full member of the Russian Academy of Sciences, our team contributed significantly to this endeavor.</li></ul>	Aug 2017 – Aug 2018

## AWARDS

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### **Funding by the RFBR project 18-012-00833A**

Aug 2018

*Awarded by Russian Foundation for Basic Research*

- Participated in research funded by the RFBR project 18-012-00833A “Dynamics of phonetical and grammatical systems of Ob-Ugric languages”. As part of the work, a morphologically annotated corpus of Mansi language was developed (Zhornik, Sizov 2018).

### **Winner of the regional stage of the All-Russian Olympiad in German**

Dec 2018

### **Scholarship for participants of XIX Summer School in Linguistics**

Jul 2017

*Awarded by Educational foundation "Evolution" (evolutionfund.ru)*

- Won a scholarship from the educational foundation "Evolution" (evolutionfund.ru), which covered the costs of attending the XIX Summer School in Linguistics.

### **Prize winner in Olympiad of Higher School of Economics (Foreign Languages)**

Mar 2017

*Awarded by Higher School of Economics*

### **Prize winner of the 'Intel-Avant-Garde' contest (Computer Science)**

Feb 2017

*Awarded by Higher School of Economics*

### **Scholarship for participants of XVIII Summer School in Linguistics**

Jul 2016

*Awarded by Educational foundation "Evolution" (evolutionfund.ru)*

- Won a scholarship from the educational foundation "Evolution" (evolutionfund.ru), which covered the costs of attending the XVIII Summer School in Linguistics.

## PUBLICATIONS

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1. D. Zhornik and F. Sizov. Linguistic variation and minor languages corpora: a case study of mansi dialects. In *Computational Linguistics and Intellectual Technologies: Proceedings of the International Conference "Dialogue 2018"*, May 2018

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, Bash, SQL, HTML, CSS, Dart, Kotlin, Perl, R, basic knowledge of C++, Java, Golang

**Frameworks:** Flask, Django, React, Vue.js

**Databases:** MongoDB, MySQL, Redis, PostgreSQL **Developer Tools:** Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Vim

**Libraries:** nltk, NumPy, Matplotlib, requests, lxml