

# EKATERINA TAKTASHEVA

Computational linguist, NLP Researcher

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📍 Moscow, Russia

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🔗 [github.com/evtaktasheva](https://github.com/evtaktasheva)

## EDUCATION

BA in Fundamental and Computational Linguistics

Higher School of Economics

📅 2018-Present

📍 Moscow, Russia

- GPA 8.9/10
- Minor: Intellectual Data Analysis

## WORK EXPERIENCE

Research Assistant

Core Research NLP, AIRI

📅 Dec 2021 - Present

📍 Moscow, Russia

- Designing methods for test data augmentation for language model evaluation

Research Assistant

Laboratory for Models and Methods of Computational Pragmatics,  
Higher School of Economics

📅 Nov 2021 - Present

📍 Moscow, Russia

Intern

AI Laboratory, Sber

📅 Sep 2021 - Dec 2021

📍 Moscow, Russia

- Designed a module for analysis and evaluation of automatically generated data
- Designed methods for test data augmentation for language model evaluation

Academic Intern

DeepPavlov

📅 Jul 2021

📍 Moscow, Russia

- Designed and analysed methods for the extraction of knowledge graphs from attention matrices of the transformer models

Academic Intern

R&D NLP, Sber

📅 Jul 2020 - Feb 2021

📍 Moscow, Russia

- Designed tasks for the evaluation of transformer-models for Russian
- Developed baselines based on distributive vector representations

Research assistant

Linguistic Laboratory for Corpus Research, Higher School of Economics

📅 Jul 2020 - Dec 2020

📍 Moscow, Russia

- Designed linguistic annotation of the student texts for the Corpus of Russian Student Texts (CRST)
- Annotated texts at CRST

## PUBLICATIONS

RuSentEval: Linguistic Source,  
Encoder Force!

V. Mikhailov, E. Taktasheva, E. Sigdel,  
E. Artemova

Proceedings of the 8th Workshop on  
Balto-Slavic Natural Language Processing

📅 2021

Shaking Syntactic Trees on the  
Sesame Street: Multilingual Probing  
with Controllable Perturbations  
E. Taktasheva, V. Mikhailov, E.  
Artemova

Proceedings of the 1st Workshop on  
Multilingual Representation Learning

📅 2021

## PROJECTS

Structural Adversarial Probing  
Term Paper

Evaluation of the structural knowledge of  
contextualised embeddings.

The work analyses the sensitivity of three  
multilingual transformer-models to syntactic  
perturbations of different complexity with the  
help of perplexity-based methods and probing  
over attention graphs and intermediate hidden  
representations produced by models.

🔗 [github.com/evtaktasheva/syntactic-probe](https://github.com/evtaktasheva/syntactic-probe)

📅 2021

## SKILLS

Python OOP numpy pandas  
sklearn nltk gensim spaCy  
transformers datasets pytorch  
matplotlib seaborn bs4 networkX  
SQL Git L<sup>A</sup>T<sub>E</sub>X

## LANGUAGES

Russian Native

English Fluent

Swedish Upper-Intermediate

## OTHER EXPERIENCE

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Teaching assistant

**Higher School of Economics**

 Sept 2019 – Feb 2022

Courses:

- Introduction to Programming (Python)
- Introduction to Data Analysis
- Programming and Linguistic Data
- Natural Language Processing
- Introduction to Deep Learning