

Lena Shakurova

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🌐 <https://github.com/Shakurova>

Education

- **Radboud University** **Nijmegen**
Master, Artificial Intelligence *2017–present*
Advanced Research Methods · Text Mining · Statistical Machine Learning
- **National Research University Higher School of Economics (NRU HSE)** **Moscow**
Bachelor, Computational Linguistics, *2013–2017*
GPA: 8.7/10
Courses: Discrete Mathematics · Programming (Python) · Linear Algebra and Mathematical Analysis · Web-Design · Computer Tools for Linguistic Research · Programming (R) · Theory of Algorithms · Automatic Natural Language Processing · Databases · Information Retrieval · Neurolinguistics
- **University of Helsinki** **Helsinki**
Exchange student, Computational Linguistics, *2015–2016*
GPA: 3.48/4.00
Courses: Programming and Natural Language Processing (NLTK) · Morphological Processing Tools (HFST)
- **Coursera**
Additional Courses *2015–2017*
Probability (Penn University) · Machine Learning (Stanford University) · Divide and Conquer, Sorting and Searching, and Randomized Algorithms (Stanford University)

Technical and Personal skills

- **Programming Languages:** Python, R, Matlab.
- **Web-design Skills:** HTML, CSS, PHP, JavaScript, Flask, Scrapy.
- **Databases:** MySQL, SQLite, MongoDB, PostgreSQL, Elasticsearch.
- **Machine Learning:** Sklearn, WEKA.
- **NLP instruments:** PRAAT, ELAN, Tomita Parser, Toloka, NLTK, LUIS.
- **Other:** \LaTeX , Jupyter Notebook, git, bash, Linux.
- Sentimental Analysis, Chatbots, Word sense disambiguation (WSD), Topic modeling, Named Entity Recognition (NER), Web-crawling, Document clusterisation, Text classification, Duplicates detection

Projects and Professional Experience

Professional Experience.....

NCEM

Moscow

◦ *Computational Linguist*

August 2016–August 2017

Working in a team developing monitoring system. I was in charge for the part of the project connected with artificial intelligence and computational linguistics.

My responsibilities included applying machine learning algorithms to develop text classifier, solving document clustering problems, solving text mining and fact extraction problems, extracting geo locations, writing web-crawlers, writing documentation and working with relational databases.

TT-Consult

Moscow

◦ *Junior Web Developer*

June 2014–August 2016

Editing content, debugging code, re-designing web page and doing Search Engine Optimisation.

Projects.....

◦ **'Automatic Test Generation based on predictability of words in context'**

The program generates language tests for a given text. The advantage of the instrument is that it is easily scalable to another language when language corpora and morphological parser of a good quality given. Code and results can be found here: <https://github.com/Shakurova/AutomaticTestGenerator>.

◦ **'Telegram Chatbot for collecting periphrases of facts'**

Telegram chatbot collects periphrases of facts (fact of work, for example). The chatbot interacts with users and get information about different facts. In the future collected data could be used to train machine learning models for text mining. Code can be found here: https://github.com/Shakurova/Paraphrase_bot.

◦ **'Computer tool for a quantitative typological research'**

The program analyses the distribution of adjectives, creates tables and draws graphics of correlations. Interaction with the user interface has also been created. Using results of this program I proved the hypothesis that adjectives like 'wet', 'damp', 'humid' differ not only in the degree for qualities. The study has been carried out for 3 languages: Russian, English, German. The program is written using Python. Code and results can be found here: <https://github.com/Shakurova/ngrams>.

Additional Information

Professional Interests.....

Speech Recognition · Recommendation Systems · Sentimental Analysis · Dialog Systems
· Word Sense Disambiguation · Topic Modeling · Named Entity Recognition · Automatic Summarization · Machine translation · Information Retrieval

Conferences.....

◦ **Conference ConCort on Digital Humanities**

Nizhnyj Novgorod

◦ *"Instruments of Quantitative Typological Research"*

October 2016

Awards.....

◦ **Orange Tulip Scholarship Russia 2017** awardee

Certificates.....

◦ **NRU HSE:** 2d degree certificate, Competition in Computational Linguistics.

◦ **Humboldt Universitat:** Semi-intensive German language course, A2.

- **Helsinki University:** Certificate of completion the Language Center Course Assistant program in Russian language teaching.

Publications.....

- **Universal Dependencies for Russian: A New Syntactic Dependencies Tagset**, Lyashevskaya O., Drozanova K., Zeman D., Alexeeva M., Gavrilova T., Mustafina N. and Shakurova E., 2016
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2859998

Language Skills.....

- **Native:** Russian
- **Advanced:** English (C1 CEFR Level, CAE)
- **Intermediate:** German
- **Basic:** Spanish, Finnish, French, Dutch

Interests.....

Programming · Web-design · Travelling · Music · Psychology · Literature