

# 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 · Computer Assisted Language 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, JavaScript, Flask, Scrappy.
- **Databases:** MySQL, SQLite, MongoDB, PostgreSQL, Elasticsearch.
- **Machine Learning:** Sklearn, WEKA, Keras.
- **NLP instruments:** PRAAT, ELAN, Tomita Parser, Toloka, NLTK, LUIS.
- **Other:**  $\text{\LaTeX}$ , 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.....

- **United Wardrobe** **Freelance, Utrecht**  
*Chat bot developer* *April 2018–present*  
Developing a chatbot for custom support

- Joboti**  
 NLP researcher  
 Doing research on intent detection and entity recognition.
  - NCEM**  
 Computational Linguist  
 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**  
 Junior Web Developer  
 Editing content, debugging code, re-designing web page and doing Search Engine Optimisation.

**Internship, Amsterdam**  
September 2017–February 2018

**Moscow**  
August 2016–August 2017

**Freelance, Moscow**  
June 2014–August 2016

## Projects.....

- Automatic language test generator**  
 The application generates language tests for a given text in Russian language. The technology is easily scalable to another language when language corpora and morphological parser of a good quality given.  
<https://github.com/Shakurova/AutomaticTestGenerator>.
- 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. Collected data can be used to train machine learning models for text mining [https://github.com/Shakurova/Paraphrase\\_bot](https://github.com/Shakurova/Paraphrase_bot).
- Computer tool for a quantitative typological research**  
 The program analyses the distribution of adjectives, generates comparison 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. <https://github.com/Shakurova/ngrams>.

## Additional Information

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### Professional Interests.....

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

### Conferences.....

- Conference ConCort on Digital Humanities**  
*"Instruments of Quantitative Typological Research"*

**Nizhnyj Novgorod**  
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., Drogonova K., Zeman D., Alexeeva M., Gavrilova T., Mustafina N. and Shakurova E., 2016  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2859998](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2859998)

#### Language Skills.....

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

#### Volunteering.....

- **President of Language Exchange Committee** at ISN Nijmegen, 2017 - 2018

#### Interests.....

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