

Taisiya Glushkova

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Education

PhD student in Computer Science, Instituto Superior Técnico

Computer Science and Engineering Department; supervisor: Professor [André F. T. Martins](#)

Collaborative project [MAIA](#) (Multilingual AI Agent Assistants) in the Carnegie Mellon Portugal Program partnership involving Instituto de Telecomunicações, INESC-ID, Carnegie Mellon University and Unbabel.

Research interests: probabilistic deep learning, uncertainty estimation, improving interpretability and robustness of machine translation evaluation models

Lisbon, Portugal

2020 – present

MSc in Data Science, HSE University

Computer Science Department; supervisor: Professor [Ekaterina Artemova](#)

Moscow, Russia

2018 – 2020

BSc in Applied Mathematics and Computer Science, HSE University

Computer Science Department; supervisor: Professor [Ekaterina Artemova](#)

Moscow, Russia

2014 – 2018

Experience

Carnegie Mellon University

Research Internship

- Robust and interpretable machine translation evaluation.

Pittsburgh, USA

Jun 2022 – Aug 2022

Instituto Superior Técnico

PhD Researcher

- Uncertainty estimation for machine translation evaluation.

Lisbon, Portugal

Sep 2020 – present

HSE University

Research Internship (Part-time)

- Question-answering for Russian language.

Moscow, Russia

Oct 2019 – Aug 2020

Unbabel

Applied AI Research Summer Internship

- Language model-based data filtering and selection for machine translation.

Lisbon, Portugal

Jul 2019 – Oct 2019

Digital Decisions

Data Scientist

- Hierarchical classification and routing of the customers messages.
- Named entity recognition for a speech assistant.

Moscow, Russia

Feb 2019 – Mar 2020

Diginetica

Junior Data Scientist/Engineer

- Spell checker tool for search queries aimed to suggest corrections for misspelled words and offer synonyms.
- Snippets from product reviews: extraction of ultra-concise summaries of opinions over products.

Moscow, Russia

Jun 2017 – Dec 2017

Yandex

Python Software Engineering Internship

- Analysis of the personalities in the flow of search queries.
- Marking and classification of the various object definitions, ranking them in order of relevance for users.

Moscow, Russia

Summer 2015

Publications

*equal contribution

Disentangling Uncertainty in Machine Translation Evaluation

Chrysoula Zerva, **Taisiya Glushkova**, Ricardo Rei, André F. T. Martins
EMNLP 2022

[[ACL Anthology](#), [poster](#)]

COMET-22: Unbabel-IST 2022 Submission for the Metrics Shared Task

Ricardo Rei, José G. C. de Souza, Duarte Alves, Chrysoula Zerva, Ana C. Farinha,
Taisiya Glushkova, Alon Lavie, Luisa Coheur, André F. T. Martins
EMNLP WMT 2022

[[ACL Anthology](#), [poster](#)]

Uncertainty-Aware Machine Translation Evaluation

[[ACL Anthology](#), [slides](#)]

Taisiya Glushkova, Chrysoula Zerva, Ricardo Rei, André F. T. Martins

Presented at the *Sixth Conference on Machine Translation (WMT21) at EMNLP 2021*
EMNLP Findings 2021

IST-Unbabel 2021 Submission for the Quality Estimation Shared Task

[[ACL Anthology](#)]

Chrysoula Zerva, Daan van Stigt, Ricardo Rei, Ana C. Farinha, Pedro G. Ramos, José G. C. de Souza,

Taisiya Glushkova, Miguel Vera, Fabio Kepler, André F. T. Martins

EMNLP WMT 2021

Are References Really Needed? Unbabel-IST 2021 Submission for the Metrics Shared Task

[[ACL Anthology](#)]

Ricardo Rei, Ana C. Farinha, Chrysoula Zerva, Daan van Stigt, Craig Stewart, Pedro G. Ramos,

Taisiya Glushkova, André F. T. Martins, Alon Lavie

EMNLP WMT 2021

DaNetQA: a yes/no Question Answering Dataset for the Russian Language

[[arXiv](#)]

Taisiya Glushkova*, Alexey Machnev*, Alena Fenogenova, Tatiana Shavrina, Ekaterina Artemova, Dmitry I. Ignatov
AIST 2020

Char-RNN and Active Learning for Hashtag Segmentation

[[arXiv](#)]

Taisiya Glushkova, Ekaterina Artemova

CICLing 2019, published in Springer LNCS

Skills

Programming languages:	Python , R, C++, HTML, CSS, \LaTeX
Tools:	Jupyter Notebook, Google Colab, git, bash
Main libraries:	numpy, pandas, matplotlib, scipy, scikit-learn, nltk, gensim, fasttext, keras, pytorch, transformers
Languages:	English(Advanced), Russian(Native), German(A2), Portuguese(A1)

Teaching

Instituto Superior Técnico

Teaching Assistant for Deep Learning course

Lisbon, Portugal

Nov 2021 – Feb 2022

HSE University

Teaching Assistant for NLP course

Teaching Assistant for Python course

Moscow, Russia

Sep 2018 – Dec 2019

Sep 2016 – Sep 2018

University Projects

Graduation Thesis (MSc) , DaNetQA: a dataset for binary question answering in Russian	2019 – 2020
Coursework , Detecting Uncertain Information in Natural Language Texts	2018 – 2019
Graduation Thesis (BSc) , Character Level Models for Hashtag Segmentation	2017 – 2018
Coursework , Collecting Dictionaries for Sentiment Analysis of Reviews	2016 – 2017
Coursework , Extracting Timestamps from News in English Language	2015 – 2016
Real Time Tracker , Desktop App for managing tasks and projects in real time (analogue of Trello) Front end: HTML, CSS, jQuery, AngularJS framework Back end: Python, Django, SQLite	2015 – 2016
Redis-server , Redis is an open source, in-memory data structure store, used as database, cache and message broker. My goal was to implement the analogue by using C++ and boost library and to practise writing Unit-tests.	2015

Extracurricular Activities

Participated in LxMLS (8th Lisbon Machine Learning School)	Summer 2018
Freshmen student advisor: helped students to choose courseloads and adjust to university life	2015 – 2017
Organized university-wide events such as the Annual Open House	2015
Hobbies: watercolor, hiking	