

# Taisiya Glushkova

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glushkovato@gmail.com

I'm a PhD student at [SARDINE](#) lab at Instituto Superior Técnico, supervised by [André F. T. Martins](#) and [Chrysoula Zerva](#). I am broadly interested in **Natural Language Generation Evaluation, Interpretability and Uncertainty Estimation**. Currently, my focus is on developing methods and models that can quantify and communicate the uncertainty associated with decisions made by NLG models, so that users and stakeholders of these systems can make more informed decisions.

## Education

<b>PhD student in Computer Science, Instituto Superior Técnico</b> Computer Science and Engineering Department; Supervisor: <a href="#">André F. T. Martins</a> <b>Thesis title:</b> Uncertainty Estimation and Robustness in Machine Translation Evaluation Collaborative project <a href="#">MAIA</a> (Multilingual AI Agent Assistants) in the Carnegie Mellon Portugal Program partnership involving Instituto de Telecomunicações, INESC-ID, Carnegie Mellon University and Unbabel. Collaborative project <a href="#">NextGenAI</a> (Center for Responsible AI). <i>Research interests: uncertainty estimation, interpretability and robustness of machine translation evaluation</i>	Lisbon, Portugal 2020 – present
<b>MSc in Data Science, HSE University</b> Computer Science Department; Supervisor: <a href="#">Ekaterina Artemova</a>	Moscow, Russia 2018 – 2020
<b>BSc in Applied Mathematics and Computer Science, HSE University</b> Computer Science Department; Supervisor: <a href="#">Ekaterina Artemova</a>	Moscow, Russia 2014 – 2018

## Experience

<b>Carnegie Mellon University</b> Research Internship • Robust and interpretable machine translation evaluation. Supervisor: <a href="#">Alon Lavie</a> .	Pittsburgh, USA Jun 2022 – Aug 2022
<b>Instituto Superior Técnico</b> PhD Researcher • Uncertainty estimation for machine translation evaluation.	Lisbon, Portugal Sep 2020 – present
<b>HSE University</b> Research Internship (Part-time) • Question-answering for Russian language.	Moscow, Russia Oct 2019 – Aug 2020
<b>Unbabel</b> Applied AI Research Summer Internship • Language model-based data filtering and selection for machine translation.	Lisbon, Portugal Jul 2019 – Oct 2019
<b>Digital Decisions</b> Data Scientist • Hierarchical classification and routing of the customers messages. • Named entity recognition for a speech assistant.	Moscow, Russia Feb 2019 – Mar 2020
<b>Diginetica</b> Junior Data Scientist/Engineer • Spell checker tool for search queries aimed to suggest synonymous corrections for misspelled words. • Snippets from product reviews: extraction of ultra-concise summaries of opinions over products.	Moscow, Russia Jun 2017 – Dec 2017
<b>Yandex</b> Python Software Engineering Internship • Analysis of the personalities in the flow of search queries. • Marking and classification of multiple object definitions, ranking them in order of relevance for users.	Moscow, Russia Summer 2015

## Selected Publications

**BLEU Meets COMET: Combining Lexical and Neural Metrics Towards Robust Machine Translation Evaluation**  
**Taisiya Glushkova**, Chrysoula Zerva, André F. T. Martins  
EAMT 2023 [\[ACL Anthology, poster\]](#)

## Disentangling Uncertainty in Machine Translation Evaluation

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

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

## Uncertainty-Aware Machine Translation Evaluation

**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*

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

## 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](#)]

## CometKiwi: IST-Unbabel 2022 Submission for the Quality Estimation Shared Task

Ricardo Rei, Marcos Treviso, Nuno M. Guerreiro, Chrysoula Zerva, Ana C. Farinha, Christine Maroti,  
José G. C. de Souza, **Taisiya Glushkova**, Alon Lavie, Luisa Coheur, André F. T. Martins  
*EMNLP WMT 2022*

[[ACL Anthology](#)]

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

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*

[[ACL Anthology](#)]

## Char-RNN and Active Learning for Hashtag Segmentation

**Taisiya Glushkova**, Ekaterina Artemova  
*CICLing 2019, published in Springer LNCS*

[[arXiv](#)]

## Skills

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Programming languages:	<b>Python</b> , R, C++, HTML, CSS, $\text{\LaTeX}$
Tools:	Jupyter Notebook, Google Colab, git, bash
Main libraries:	numpy, pandas, matplotlib, scipy, scikit-learn, 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

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<b>Graduation Thesis (MSc)</b> , DaNetQA: a dataset for binary question answering in Russian	2019 – 2020
<b>Coursework</b> , Detecting Uncertain Information in Natural Language Texts	2018 – 2019
<b>Graduation Thesis (BSc)</b> , Character Level Models for Hashtag Segmentation	2017 – 2018
<b>Coursework</b> , Collecting Dictionaries for Sentiment Analysis of Reviews	2016 – 2017
<b>Coursework</b> , Extracting Timestamps from News in English Language	2015 – 2016
<b>Real Time Tracker</b> , Desktop App for managing tasks and projects in real time (analogue of Trello)	2015 – 2016

## Extracurricular Activities

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Participated in a poster session at <a href="#">CMU Portugal 2022 Summit</a>	November 2022
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