

# Taisiya Glushkova

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I am a ML/NLP engineer, broadly interested in **LLMs, Evaluation, Interpretability and Uncertainty Estimation**. I recently completed a PhD, where my doctoral research focused on enhancing the robustness of Machine Translation evaluation models and developing methods that can quantify and communicate the uncertainty associated with their outputs. This experience has refined my skills in developing complex ML systems and ensuring their robustness and fairness. Driven by the ongoing advancements in AI, I am eager to explore the latest ML/DL tools and best practices. I thrive on project ownership and aim to contribute to impactful work across various domains.

**Based in Lisbon, Portugal. Hold a valid Portuguese residency permit, allowing work authorization.**  
**Open to relocation if needed.**

## Education

<b>PhD in Computer Science and Engineering, Instituto Superior Técnico</b>	Lisbon, Portugal
Supervisors: <a href="#">André F. T. Martins</a> , <a href="#">Chrysoula Zerva</a>	2020 – 2024
<b>Thesis title:</b> Uncertainty Estimation and Robustness in Machine Translation Evaluation Collaborative project <a href="#">MAIA (Multilingual AI Agent Assistants)</a> – CMU Portugal Program partnership Collaborative project <a href="#">NextGenAI (Center for Responsible AI)</a> .	
<b>MSc in Computer Science, HSE University</b>	2018 – 2020
<b>BSc in Applied Mathematics and Computer Science, HSE University</b>	2014 – 2018

## Internships

<b>Carnegie Mellon University</b>	Pittsburgh, USA
Research. Robust and interpretable machine translation evaluation. Supervisor: <a href="#">Alon Lavie</a> .	2022
<b>HSE University</b>	Moscow, Russia
Research. Question-answering for Russian language.	2019 – 2020
<b>Unbabel</b>	Lisbon, Portugal
Applied AI Research. Language model-based data filtering and selection for machine translation.	2019
<b>Yandex</b>	Moscow, Russia
Software Engineering. Classification and ranking of multiple object definitions by user relevance.	2015

## Professional Experience

<b>Instituto Superior Técnico</b>	Lisbon, Portugal
PhD Researcher. Uncertainty estimation and robustness for efficient machine translation evaluation.	2020 – 2024
<b>Digital Decisions</b>	Moscow, Russia
ML Engineer Hierarchical classification and routing of customer messages for Vkusvill. Named entity recognition for a speech assistant at Huawei.	2019 – 2020
<b>Diginetica</b>	Moscow, Russia
Junior Data Scientist/Engineer Spell checker for search queries suggesting synonymous corrections. Extraction of concise summaries from product reviews.	2017

## Technical Skills

- Deep Learning, Machine Learning, Natural Language Processing.
- Fluent in Python, with minor experience with R and C++.
- Proficient with common data science libraries such as NumPy, pandas, matplotlib, scikit-learn, and HuggingFace.
- Comfortable with common data science tools, e.g. bash, git, Linux, slurm, Jupyter Notebook, and Google Colab.
- Experience with Deep Learning frameworks: PyTorch, Keras.

## Selected Publications

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- BLEU Meets COMET: Combining Lexical and Neural Metrics Towards Robust Machine Translation Evaluation**  
Taisiya Glushkova, Chrysoula Zerva, André F. T. Martins [ACL Anthology, poster]  
EAMT 2023
- Disentangling Uncertainty in Machine Translation Evaluation** [ACL Anthology, poster]  
Chrysoula Zerva, Taisiya Glushkova, Ricardo Rei, André F. T. Martins  
EMNLP 2022
- 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
- COMET-22: Unbabel-IST 2022 Submission for the Metrics Shared Task** [ACL Anthology, poster]  
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, *Second place on the WMT 2022 Metrics shared task*
- CometKiwi: IST-Unbabel 2022 Submission for the Quality Estimation Shared Task** [ACL Anthology]  
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, *Winner of the WMT 2022 QE shared task*
- 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

## Teaching

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<b>Instituto Superior Técnico</b>	Lisbon, Portugal
Teaching Assistant for Deep Learning course	2021 – 2022
<b>HSE University</b>	Moscow, Russia
Teaching Assistant for Natural Language Processing (NLP) course	2018 – 2019
Teaching Assistant for Python course	2016 – 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

## Extracurricular Activities

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Participated in a poster session at <a href="#">Center for Responsible AI   Demo Day</a>	June 2024
Mentored junior PhD students, providing guidance on research projects and academic writing	2023-2024
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