

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 thrive on exploring the latest ML/DL tools, taking ownership of projects, and contributing 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

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

Internships

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

Professional Experience

Instituto Superior Técnico	Lisbon, Portugal
PhD Researcher	2020 – 2024
<ul style="list-style-type: none">• Worked on uncertainty estimation and robustness methods for efficient machine translation evaluation.• Collaborated with the Unbabel research team on WMT Metrics and Quality Estimation shared tasks.	
Digital Decisions	Moscow, Russia
ML Engineer	2019 – 2020
<ul style="list-style-type: none">• Implemented a hierarchical classification and routing system for customer messages at Vkusvill.• Developed a named entity recognition model for speech assistant project at Huawei.	
Diginetica	Moscow, Russia
Junior Data Scientist/Engineer	2017
<ul style="list-style-type: none">• Created a tool for generating concise summaries from product reviews.• Developed a production-ready tool for spell-checking search queries and providing synonymous corrections.	

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

- 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

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

Extracurricular Activities

Participated in a poster session at Center for Responsible AI Demo Day	June 2024
Mentored junior PhD students, providing guidance on research projects and academic writing	2023-2024
Participated in a poster session at CMU Portugal 2022 Summit	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