

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

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| 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

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| 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

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

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

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| 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

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| 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

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| 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 |