Evgeniia Tokarchuk

PhD Candidate, University of Amsterdam

evgeniia@tokarch.uk • evgeniia.tokarch.uk

 [text] generative modeling probabilistic models geometry-aware modeling and representation	
University of Amsterdam, Amsterdam, The Netherlands	
	Iay 2021 – present 'lad Niculae.
RWTH Aachen University , Aachen, Germany	
 M.Sc. Software Systems Engineering Oct 2017 – Mar 2021 GPA: 1.7 (1.0 best; 5.0 worst) Relevant Coursework: Statistical Classification and Machine Learning, Natural Language Processing, Machine Learning, Advanced Machine Learning, Automatic Speech Recognition (Lab) Master thesis topic: Tight model integration for pivot-based Neural Machine Translation 	
South Ural State University, Chelyabinsk, Russia	
 Specialist in Information Security for Automated Systems Graduated with Honors 	p 2011 – Jun 2016
 Technical: machine learning, natural language processing, machine translation, python (8+yrs), pytorch, linux/bash shell, git Languages: Russian (native), English (C1), Dutch (A1) 	
a Pari Aashan Cormany	
	t 2019 – Mar 2021 egressive models and
i6, RWTH Aachen University, Aachen, Germany	
 Student Worker, Human Language Technology and Pattern recognition group, Feb Worked on data engineering for Named Entity Recognition task using Flair (PyTorch-based fram Experimented with Character-Based Machine Translation using RETURNN (TensorFlow-based 	
PressFoto , Chelyabinsk, Russia	
 Algorithm's developer, R&D department Oct Worked on optimization of image search quality results using text queries. Worked on embeddim 	2016 – Aug 2017 ngs similarity search.
The Honeynet Project,	
 Google Summer of Code 2016, May Developed from scratch SNARE and TANNER honeypot project using python3 and aiohttp framework in the structure of the s	2016 – Aug 2016 mework.
 E. Tokarchuk, V. Niculae. The Unreasonable Effectiveness of Random Target Embeddings for Continuous-Output Neural Machine Translation, <i>arXiv preprint</i>, October 2023. E. Tokarchuk, V. Niculae. On Target Representation in Continuous-output Neural Machine Translation, <i>RepL4NLP</i>, May 2022. E. Tokarchuk, J. Rosendahl, W.Wang, P. Petrushkov, T. Lancewicki, S. Khadivi and H. Ney. Integrated Training for Sequence-to-Sequence Models Using Non-Autoregressive Transformer, <i>IWSLT</i>, August 2021. E. Tokarchuk, D. Thulke, W. Wang, C. Dugast, and H. Ney. Investigation on Data Adaptation Techniques for Neural Named Entity Recognition. <i>ACL Student Research Workshop</i>, August 2021. E. Tokarchuk, J. Rosendahl, W. Wang, P. Petrushkov, T. Lancewicki, S. Khadivi and H. Ney. Towards Reinforcement Learning for Pivot-based Neural Machine Translation with Non-autoregressive 	
	 probabilistic models geometry-aware modeling and representation University of Amsterdam, Amsterdam, The Netherlands PhD Candidate, Language Technology Lab Working on continuous text representation for generative models under the supervision of Dr. V RWTH Aachen University, Aachen, Germany M.Sc. Software Systems Engineering Oct GPA: 1.7 (1.0 best; 5.0 wors) Relevant Coursework: Statistical Classification and Machine Learning, Natural Language Learning, Advanced Machine Jenering, Automatic Speech Recognition (Lab) Master thesis topic: Tight model integration for pivot-based Neural Machine Translation South Ural State University, Chelyabinsk, Russia Specialist in Information Security for Automated Systems Graduated with Honors Technical: machine learning, natural language processing, machine translation, pytho linux/bash shell, git Languages: Russian (native), English (C1), Dutch (A1) eBay, Aachen, Germany Working Student, Human Language Tech Oct Worked on end-to-end fine-tuning of pivot-based neural machine translation using non-autor reinforcement learning. f, RWTH Aachen University, Aachen, Germany Student Worker, Human Language Technology and Pattern recognition group, Fel Worked on edineering for Named Entity Recognition task using Flair (PyTorch-based frar Experimented with Character-Based Machine Translation using netTURNN (TensorFlow-based Tra Experimente System); Student Worker, Russia Algorithm's developer, R&D department Worked on optimization of image search quality results using text queries. Worked on embeddit

TEACHING	 University of Amsterdam, Amsterdam, The Netherlands TA, Natural Language Processing 2 Supervised student's projects on applications of reinforcement learning for non-aut 	Apr 2022 – Jun 2022 oregressive NMT.	
	 University of Amsterdam, Amsterdam, The Netherlands TA, Natural Language Processing 2 Supervised student's projects on applications of reinforcement learning for non-aut 	April, 2023 – June, 2023 poregressive NMT.	
SUPERVISION & MENTORSHIP	IAI community mentor, University of AmsterdamInclusive AI (IAI) community for the Master's programme AI mentor	Nov 2023 – present	
	 BSc KI, University of Amsterdam Apr 2023 – Jul 2023 Optimising inference speed of beam search continuous output NMT, Isaac Santhagens 		
	 BSc KI, University of Amsterdam Apr 2023 – Jul 2023 Optimising inference speed of beam search continuous output NMT, Isaac Santhagens 		
	BSc KI, University of AmsterdamAnalysis of Beam Search for decoding continuous text representations, Ka	Nov 2022 – Mar 2023 acper Bartosik	
	BSc KI, University of AmsterdamLength Estimation in Non-autoregressive Text Generation Models, Erik B	Apr 2022 – Jun 2022 uis	
	Master Thesis AI, University of AmsterdamRecycling English Language Models for Dutch Summarisation, Redouane	Nov 2021 – Oct 2022 Dahmani	
AWARDS & SCHOLARSHIPS	 ProbAI 2023 participant, Trondheim, Norway DAAD Study Scholarships for Graduates of All Disciplines 	Jun 2023 – Jun 2017 2018 – 2019	
COMMUNITY SERVICE	 Reviewing for conferences: ACL, EACL, EMNLP, NeurIPS NGO Volunteers with No Limits: chairwoman The HoneyNet Project: Google Summer of Code Mentor 	2021 – present Mar 2022 – present 2017 – 2021	