

Evgeniia Tokarchuk

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EDUCATION

University of Amsterdam, Amsterdam, The Netherlands

- PhD Candidate, Language Technology Lab May 2021 – present
 - Working on the machine learning applications for natural language processing under the supervision of Dr. Vlad Niculae.
 - **Research interests:** [text] generative models, machine translation, non-autoregressive generation.

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), Selected Topics in Human Language Technology and Machine Learning (Seminar)

South Ural State University, Chelyabinsk, Russia

- Specialist in Information Security for Automated Systems Sep 2011 – Jun 2016
 - Graduated with Honors

EXPERIENCE

eBay, Aachen, Germany

- Working Student, Human Language Tech Oct 2019 – Mar 2021
 - **Master thesis topic:** Tight model integration for pivot-based Neural Machine Translation

i6, RWTH Aachen University, Aachen, Germany

- Student Worker, Human Language Technology and Pattern recognition group, Feb 2018 – Sep 2019
 - Worked on data engineering for Named Entity Recognition task using Flair (PyTorch-based framework).
 - Experimented with Character-Based Machine Translation using RETURNN (TensorFlow-based framework).

PressFoto, Chelyabinsk, Russia

- Algorithm's developer, R&D department Oct 2016 – Aug 2017
 - Worked on search quality results by optimizing Sphinx queries.
 - Added auto-correction of search queries
 - Researched on using word vector representation for filtering irrelevant photo keywords

The Honeynet Project,

- GSoC'16 Intern, May 2016 – Aug 2016
 - Developed from scratch **SNARE** and **TANNER** honeypot project using python3 and aiohttp framework.

AWARDS & SCHOLARSHIPS

- DAAD Study Scholarships for Graduates of All Disciplines 2018 – 2019
- Monthly Scholarship of the President of the Russian Federation 2015 – 2016
- Honorary Diploma, Federal Assembly of Russian Federation State Dum 2016

PAPERS

- **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, IWSLT, August 2021.
- **E. Tokarchuk**, D.Thulke, W.Wang, C. Dugast, and H. Ney. Investigation on Data Adaptation Techniques for Neural Named Entity Recognition. ACL Student Research Workshop, 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 Transformer, Reinforcement Learning for Real Life Workshop, July 2021.
- Q. Feng, W. Wang, **E. Tokarchuk**, C. Dugast, and H. Ney. Data Processing Techniques for the TAC-KBP 2019 EDL Task. Text Analysis Conference (TAC) 2019, Gaithersburg, Maryland, USA, November 2019.

SKILLS

- **Technical:** python (5+yrs), pytorch, numpy, bash, git
- **Languages:** Russian (native), English (C1)

VOLUNTEERING

- **The HoneyNet Project:** Google Summer of Code Mentor 2017 – Present