Anastasia Kuznetsova

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EDUCATION

Indiana University Bloomington, IN, USA
Ph.D. in Computer Science and Computational Linguistics (Dual major)
Advisors: M. Kim (Chair, IU Intelligent Systems Engineering),
F. Tyers (Chair, IU Linguistics), D. Williamson (OSU Computer Science) 2019–Current

NRU Higher School of Economics Moscow, Russia
M.A. in Computational Linguistics
Advisor: F.Tyers 2017–2019

Russian State University for the Humanities Moscow, Russia
B.A. in Social Anthropology 2013–2017

PUBLICATIONS

Conference papers

[C4] **Anastasia Kuznetsova**, Anurag Kumar, Jennifer Drexler-Fox and Francis Tyers, "Curriculum Optimization for Low-resource Speech Recognition," Proc. 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2022, 8187 – 8191.

[C3] Piyush Vyas, **Anastasia Kuznetsova** and Donald S. Williamson, "Optimally Encoding Inductive Biases into the Transformer Improves End-to-End Speech Translation," Proc. Interspeech, 2021, 2287 – 2291. *Winner of 2021 Interspeech Best Student Paper Award.*

[C2] **Anastasia Kuznetsova** and Francis Tyers, "A finite-state morphological analyser for Paraguayan Guaraní," Proc. of the First Workshop on Natural Language Processing for Indigenous Languages of the Americas, 2021, 81 – 89.

[C1] Anna Zueva, **Anastasia Kuznetsova** and Francis Tyers, "A finite-state morphological analyser for evenki," Proc. of The 12th Language Resources and Evaluation Conference (LREC), 2020, 2581 – 2589.

PREPRINTS

[P1] **Anastasia Kuznetsova**, Aswin Sivaraman, Minje Kim, "The potential of Neural Speech Synthesis-based Data Augmentation for Personalized Speech Enhancement," (Sibmitted to ICASSP 2023).

EMPLOYMENT

Coqui.ai Remote, Willington, DE, USA
Research Intern, Text-to-Speech (TTS) June 2022 – August 2022

− Extraction of speaker attributes from self-supervised representations.

Indiana University Bloomington, IN, USA
Research Assistant August 2020 – May 2022

- Supervisor: D. Williamson
- Self-supervised representation learning for Speech Enhancement.

Rev.com   Remote, Austin, TX, USA
Machine Learning Engineer Inter (STT)   June 2021 – August 2021

- Supervisor: J. Drexler Fox
- Curriculum Learning for high- and low-resource speech recognition.

Indiana University   Bloomington, IN, USA
Research Assistant   August 2019 – May 2020

- Supervisor: F. Tyers
- Low-resource speech recognition.

MTS, Artificial Intelligence Department   Moscow, Russia
Computational Linguist   January 2019 – July 2019

- Rule-based dialogue systems.

TEACHING

Indiana University   Bloomington, IN, USA
Assosiate Instructor   Fall 2022
- ENGR-E 533 Deep Learning Systems

AWARDS

- *Luddy Outstanding Research Award*   2022
  Nominated as a graduate student for outstanding research by the Dept. of Computer Science,
  Luddy school of Informatics, Computing and Engineering, Indiana University.

- *Interspeech 2021 Best Student Paper Award*   2021

SKILLS

- **Expertise areas:** Generative models, Text-to-speech, Speech Enhancement, Self-Supervised Representation Learning;
- **Programming Languages:** Python, C/C++;
- **Frameworks:** PyTorch, Tensorflow, Fairseq, ESPNet;

EXTRACURRICULAR

- **Reviewer** ICASSP 2023
- **Mentor** Google Summer of Code, Google Code-In 2018, 2019, 2020
- **Student Participant:** Google Summer of Code 2018