

Anastasia Kuznetsova

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EDUCATION

Indiana University Ph.D. Candidate in Computer Science and Computational Linguistics (Dual major) Advisors: M. Kim (Chair, IU Intelligent Systems Engineering), F. Tyers (Chair, IU Linguistics)	Bloomington, IN, USA 2019–Present
NRU Higher School of Economics M.A. in Computational Linguistics Advisor: F.Tyers	Moscow, Russia 2017–2019
Russian State University for the Humanities B.A. in Social Anthropology	Moscow, Russia 2013–2017

PUBLICATIONS

Conference papers

- [C5] **Anastasia Kuznetsova**, Aswin Sivaraman, Minje Kim, “The potential of Neural Speech Synthesis-based Data Augmentation for Personalized Speech Enhancement,” Proc. 2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2023, 1 – 5.
- [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.

EMPLOYMENT

Google LLC Student Researcher – Supervised clustering for speaker diarization.	Remote, IN, USA September 2023 – December 2023
Google LLC Research Intern – Reinforcement Learning based supervised clustering for speaker diarization.	New York, NY, USA May 2023 – July 2023

Coqui.ai

Research Intern, Text-to-Speech (TTS)

- Extraction of speaker attributes from self-supervised representations.

Remote, Willington, DE, USA

June 2022 – August 2022

Indiana University

Research Assistant

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

Bloomington, IN, USA

August 2020 – May 2022

Rev.com

Machine Learning Engineer Inter (STT)

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

Remote, Austin, TX, USA

June 2021 – August 2021

Indiana University

Research Assistant

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

Bloomington, IN, USA

August 2019 – May 2020

MTS, Artificial Intelligence Department

Computational Linguist

- Rule-based dialogue systems.

Moscow, Russia

January 2019 – July 2019

TEACHING

Indiana University

Associate Instructor

- ENGR-E 511 Machine Learning for Signal Processing

Bloomington, IN, USA

Spring 2023

Indiana University

Associate Instructor

- ENGR-E 533 Deep Learning Systems

Bloomington, IN, USA

Fall 2022, Fall 2023

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, Reinforcement Learning;
- **Programming Languages:** Python, C/C++;
- **Frameworks:** PyTorch, Tensorflow, Fairseq, ESPNet;

EXTRACURRICULAR

- **Reviewer** ICASSP 2023, 2024
- **Mentor** Google Summer of Code, Google Code-In 2018, 2019, 2020
- **Student Participant:** Google Summer of Code 2018