

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

- [C1] **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.
- [C2] 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.*
- [C3] **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.
- [C4] 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

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

Research Assistant

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

MTS, Artificial Intelligence Department

Computational Linguist

- Rule-based dialogue systems.

Bloomington, IN, USA

August 2019 – May 2020

Moscow, Russia

January 2019 – July 2019

TEACHING

Indiana University

Associate Instructor

- ENGR-E 533 Deep Learning Systems

Bloomington, IN, USA

Fall 2022

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:** Speech Recognition, Speech Enhancement, Self-Supervised Representation Learning;
- **Programming Languages:** Python, C/C++;
- **Frameworks:** PyTorch, Tensorflow, Fairseq, ESPNet;

EXTRACURRICULAR

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