

ANASTASIA KUZNETSOVA

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EDUCATION

Indiana University, Bloomington

PhD student in Computational linguistics
with minor in Computer Science

September 2019 - May 2024

GPA: 3.825

NRU Higher School of Economics

Master of Arts
Computational linguistics

September 2017 - July 2019

Russian State University for the Humanities

Bachelor
Social Anthropology

September 2013 - July 2017

CARRIER OBJECTIVE

Gain experience working in research related to speech processing technologies in a low-data setting, e.g. with low-resourced languages.

PROJECTS

Speaker Identification system with Siamese network

Speaker Identification system for Spanish using one-shot approach with Siamese neural networks. The approach is based on the distance between speaker embeddings.

BPE weighting of morphological analyser for Paraguayan Guaraní

Weighting of the morphological analyser based on finite-state technology using Byte Pair encoding algorithm.

Curriculum learning for low-resourced languages

Automated-speech recognition for Breton language using curriculum learning approach.

Named Entity Recognition for Russian Popular Science corpora

Rule-based entity extraction.

Morphological Disambiguation for Paraguayan Guaraní

Morphological disambiguation task is being completed by using rule-based technology.

Machine Translation for Guaraní–Spanish language pair

Google Summer of Code project for Apertium Open Source machine translation platform focusing on under-resourced and marginalized languages.

TECHNICAL STRENGTHS

Programming languages

Python, Bash

Frameworks & Packages

Tensorflow, Kaldi, HFST, NLTK, Sklearn, other NLP packages

WORK EXPERIENCE

Indiana University, Bloomington

2019

Graduate Research Assistant

- Research in technologies for low-resourced languages.

Mobile Telecom Systems, Artificial Intelligence Department

2019

Developer

- Developing NLP tools for linguistic systems.

Russian State University for the Humanities

2015 – 2016

Department Assistant

RELATED COURSES

Second Programming language: C++

Spring 2020

Reinforcement learning

Spring 2020

Deep Learning for speech processing

Fall 2019

Advanced Natural Language Processing

Fall 2019

Seminar in Computational Linguistics

Fall 2019

EXTRA-CIRRICULAR

Google Code-In

2018, 2019

Mentor for Apertium

- Mentoring for Apertium Open Source organization. Helped younger students in completing coding tasks.

Google Summer of Code

2018

Student Developer in Apertium

- Developed machine translation system for Guarani-Spanish language pair.

PERSONAL TRAITS

Highly motivated and eager to learn new things.

Strong motivational and leadership skills.

Ability to work as an individual as well as in group.