ANASTASIA KUZNETSOVA

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EDUCATION

Indiana University, Bloomington Sep 2019 - May 2024 PhD student in Computational linguistics with minor in Computer Science GPA: 3.825 **NRU Higher School of Economics** Sep 2017 - Jul 2019 Master of Arts Computational linguistics Moscow, Russia Russian State University for the Humanities Sep 2013 - Jul 2017 Bachelor

Social Anthropology

Moscow, Russia

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 Guaranai

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 Guarani-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

Sep 2019–Present

Graduate Research Assistant

· Research in technologies for low-resourced languages.

Mobile Telecom Systems, Artificial Intelligence Department

Jan-Jul 2019

Developer

· Developing NLP tools for linguistic systems, skills for voice assistant.

Russian State University for the Humanities

Feb 2015 - May 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-CIRRUCULAR

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.

PUBLICATIONS

Co-authored In Review

A finite state morphological analyser for Paraguayan Guaraní (LREC) (Co-authored with F. M. Tyers)

In Review

A finite state morphological analyser for Evenki (LREC) (Co-authored with F. M. Tyers and A. Zueva)

LANGUAGES

Russian (native), Portuguese (fluent), Spanish (fluent), Lithuanian (intermediate), Guaraní (basic knowledge)

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.