

KSENIYA BURAYA

Research Engineer

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PROFESSIONAL SUMMARY

Research engineer with 8+ years of R&D experience in Machine Learning, Data Storage Management, Algorithms Design&Analysis and Multimodal Media Data Analysis fields. Excellent problem solving skills. Adept in working with engineers and project managers at multiple levels in industry and academics to utilize, visualize research data and achieve optimal results. Have valuable experience in public speeches at conferences, writing scientific papers (10+ scientific publications), teaching and mentoring students. Currently working on my PhD thesis at ITMO University under supervision of Professor A. Filchenkov.

EDUCATION

ITMO University 2011 — 2016

Bachelor Degree Applied Mathematics and Computer Science

Bachelor thesis topic “Prototyping of Network Systems Infrastructure” done in EMC company under supervision of Senior Software Engineer Vasyliy Tolstoy and Professor Gusarova Natalya

ITMO University 2016 - 2018

Master Degree Applied Mathematics and Computer Science,

Master thesis topic “Towards User Personality Profiling from Multimodal Data from Social Networks” scientific supervisor Professor Andrey Filchenkov

ITMO University, 2021 — current.

PhD research in the field of Neural Network Technologies

PhD thesis: digital generative makeup technology development, adviser Filchenkov A.A.

<https://www.researchgate.net/profile/Kseniya-Buraya>

<https://scholar.google.com/citations?user=PHOdEt0AAAAJ&hl=en&oi=ao>

Log-Based Reading Speed Prediction: A Case Study on War and Peace. *I Tukh, P Braslavski, K Buraya*. The proceedings of the International Conference on Analysis of Images, Social Networks and Texts, 2019.

RICH-CPL: Fact Extraction from Wikipedia-sized Corpora for Morphologically Rich Languages. *Sergei Budkov, Kseniya Buraya, Andrey Filchenkov, Ivan Smetannikov, Antonina Puchkovskaia*. The Proceedings of Conference of Open Innovations Association (FRUCT), 2018.

Towards User Personality Profiling from Multiple Social Networks. *Kseniya Buraya, Aleksandr Farseev, Andrey Filchenkov, Tat-Seng Chua*. The proceedings of AAAI Conference on Artificial Intelligence, 2017.

Multi-view personality profiling based on longitudinal data. *Kseniya Buraya, Aleksandr Farseev, Andrey Filchenkov*. The proceedings of the International Conference of the Cross-Language Evaluation Forum for European Languages, 2018.

Toward Never Ending Language Learning for Morphologically Rich Languages. *Kseniya Buraya, Lidia Pivovarova, Sergey Budkov, Andrey Filchenkov*. The proceedings of the 6th Workshop on Balto-Slavic Natural Language Processing, 2017.

Mining of relevant and informative posts from text forums. *Kseniya Buraya, Vladislav Grozin, Vladislav Trofimov, Pavel Vinogradov, Natalia Gusarova*. The proceedings of Electronic Governance and Open Society: Challenges in Eurasia, 2018.

System of network infrastructure configuring for project learning. *Galina Artemova, Artem Beresnev, Kseniya Buraya, Natalia Gusarova*. Journal of Engineering and Applied Sciences. 2017.

Automatic summarization of web forums as sources of professionally significant information. *Vladislav Grozin, Kseniya Buraya, Vladislav Trofimov, Vladislav Vinogradov, Natalia Gusarova*. Journal Scientific and Technical of Information Technologies, Mechanics and Optics. 2016.

WORK HISTORY

PhD Student

ITMO University -- Saint Petersburg

Current

Working on a project about virtual generative makeup. Organizing work of small research group.

Reading scientific papers, preparing public talks for conferences (8BIT@Yandex for schoolchildren, DataFest, AI Journey@Sber).

NLP course teaching assistance.

ML/NLP Engineer

Yandex.Maps — Saint-Petersburg

July 2021 — August 2022

As member of the User Generated Content team working with GPT and BERT language models types for reviews classification and synthetic reviews generation tasks.

Building product analytics dashboards for generating product growth ideas. Preparing presentations and extensive technical reports to document results.

Organizing a research paper reading club for teammates.

Writing backend code on C++.

Software Engineer

Vkontakte — Saint-Petersburg

May 2018 — June 2021

As a member of the product growth team participate in research and development of launching small experimental parts of the product both as Backend Engineer on PHP / Python and Machine Learning Engineer.

Launching user-to-user recommendation system as Product Owner. Developing technical and product documentation. Organizing work of the team of 5 people.

Developing Recommender System and backend code for local events recommendation app.

Developing Recommender System for personalized games recommendation.

Developing user language detection system and content recommendation system based on user and content languages matching.

Researcher

National University of Singapore / ITMO University — Singapore / Saint-Petersburg

May 2016 — May 2018

As a member of the faculty research team working on a Master degree project dedicated to user personality profiling based on multimodal data from Social Networks (images, text, geo). Adopting research project for business need for *somin.ai* product. Public presentation of both research and technical project details.

Working on a reading speed prediction project based on users data from Bookmate reading application based on both morphological and thematic text features (LDA, word2vec, doc2vec).

Working on rewriting source code of the CPL component of the NELL system to the Russian language (Python).

Teaching assistance on NLP courses for Master and Bachelor students.

Junior Software Engineer

EMC — Saint-Petersburg

December 2015 — December 2016

As a member of a student project working on a bachelor thesis dedicated to prototyping network infrastructure for small business clients with Linux *rpcbind* utility.

Researching and experimenting with Linux system possibilities for modeling networks infrastructure by writing programs on C/C++.

Skills & Abilities

Algorithms and Data Structures, Python, PHP, Hadoop, Machine Learning, Recommendation Systems, NLP, Data Analysis, Research, Academic Writing, Project Management, Teaching, Leadership, Product Development, Design, Figma, Presentation, Public Speaking, Notion, Research Papers Reading.

Languages

English - Professional Working

Russian — Native

Certifications

Coursera. Introduction to Deep Learning. ID: *P4J8PJYAW4F*.