Oleksii Hrinchuk (Aleksey Grinchuk)

PERSONAL DETAILS

- Address: Kerchenskaya Ulitsa 1A 1, Moscow, Russia
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EDUCATION

Moscow Institute of Physics and Technology

Bachelor of Applied Physics and Mathematics	GPA: 4.8/5.0	July 2015
Master of Applied Physics and Mathematics	GPA: 4.9/5.0	July 2017
PhD in Computational Science and Engineering		August 2021

Skolkovo Institute of Science and Technology

Master of Computational Science and Engineering	GPA: 4.9/5.0	June 2017

EDUCATIONAL AWARDS

- Dean's list in 2012 and 2013
- Foundation for Innovative Education scholarship in 2011, 2012, and 2013
- Diploma of the third degree at ACM ICPC NEERC semifinal, 2016
- "Best Research MS Thesis" award at Skoltech, 2017

PUBLICATIONS

- **Riemannian Optimization for Skip-Gram Negative Sampling**, Alexander Fonarev*, Oleksii Hrinchuk*, Gleb Gusev, Pavel Serdyukov, and Ivan Oseledets (* *equal contribution).* Annual Meeting of Association for Computational Linguistics (ACL 2017).

MOST RECENT PROJECTS & INTERNSHIPS

Work at Skoltech July 2017 - Present

Research intern in reinforcement learning and deep learning projects jointly supervised by prof. Ivan Oseledets and prof. Andrzej Cichocki.

- Reinforcement learning
- Deep learning

Internship at Duke University (USA) October 2016 - January 2017

Visiting research scholar in RL projects supervised by prof. Ronald Parr.

- Reinforcement learning
- Numerical linear algebra

Internship at Yandex June 2016 - August 2016
Research intern in natural language processing and information retrieval projects.

- Natural language processing
- Information retrieval

OTHER PROJECTS

Feature Space Perspectives in RL September 2016 - June 2017
MS thesis research project jointly supervised by prof. Ronald Parr at Duke University and prof. Ivan Oseledets at Skoltech.
Research, development, and comparison of different reinforcement learning algorithms with linear Q-function approximation.

- Reinforcement learning
- Numerical linear algebra

Word2Vec as Matrix Factorization January 2016 - August 2016
Research project supervised by prof. Ivan Oseledets in a collaboration with Yandex.
Solving Google word2vec optimization problem as matrix factorization problem and application of advanced Riemannian optimization methods on manifolds.

- Natural language processing
- Optimization methods

CDC for Topic Models Initialization December 2014 - June 2015
BS thesis research project supervised by prof. Konstantin Vorontsov.
Application of context document clustering approach to topic models initialization.

- Topic modeling
- Information retrieval

SKILLS & INTERESTS

Languages
English (C1), Russian, Ukrainian

Programming skills
Python (Numpy, Scikit-learn, Tensorflow)

Presentation & writing skills
LaTeX, Beamer, Keynote

Area of research interests
Reinforcement learning, deep learning, natural language processing