Marina Munkhoeva

CONTACT INFORMATION

Skolkovo Institute of Science and Technology
Computational and Data-Intensive Science and Engineering
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RESEARCH INTERESTS

Generative modelling, normalizing flows; variational inference, Bayesian methods in deep learning; kernel methods and neural networks; neural machine translation and deep learning in natural language processing.

PUBLICATIONS

M. Munkhoeva, Y. Kapushev, E. Burnaev and I. Oseledets, Quadrature-based features for kernel approximation, accepted as a conference paper (Spotlight) at the 32nd Annual Conference on Neural Information Processing Systems (NIPS 2018).
arxiv.org/abs/1802.03832, code: github.com/maremun/quffka

EDUCATION

Skolkovo Institute of Science and Technology (Skoltech)
Ph.D. student, Computer Science (expected October 2020)
Advisor: Ivan Oseledets

Skolkovo Institute of Science and Technology (Skoltech)
M.Sc. in Computational Mathematics, June 2016
Advisor: Ivan Oseledets
Thesis: Using deep neural networks for machine translation with non-parallel corpora

Massachusetts Institute of Technology (MIT)
Visiting student, Fall 2015
Coursework: Algorithms for Inference (6.438), Advanced Natural Language Processing (6.864), Statistical Learning Theory and Applications (9.520)

National Research University Higher School of Economics (NRU HSE)
Bachelor Degree, June 2014
GPA 4.9/5, magna cum laude (top 3%)

GRADUATE COURSEWORK

- Tensors, Matrices and Computations
- Optimization Methods
- Bayesian Methods
- Representation Learning and Deep Learning

TEACHING EXPERIENCE

Fall	2016	Teaching assistant	Numerical Linear Algebra
January	2017	Instructor	Mathematical and technical writing in English
Fall	2017	Teaching assistant	Numerical Linear Algebra
January	2018	Instructor	Reproducible Research with Docker
Fall	2018	Teaching assistant	Numerical Linear Algebra

RELEVANT SKILLS

Programming:	Python, PyTorch, Tensorflow
ML:	Deep Learning, Generative models (flows, GANs, VAEs), Kernels
Languages:	English (fluent), Russian (native)
Misc:	LaTeX, Git, Docker, Linux, cluster administration

PROJECTS

NLA bot, a Telegram bot for home assignment automated grading.
Developed the bot for Telegram messenger for students to test, submit and auto-grade home assignments. github.com/maremun/nlabot

AWARDS

Spring 2014	NRU HSE Scholarship (for best academic performance)
Fall 2018	NIPS Travel Grant

REFERENCES

Ivan Oseledets, Associate Professor,
Skolkovo Institute of Science and Technology, i.oseledets@skoltech.ru