

RESEARCH INTERESTS	Generative modelling, fast kernel methods, tensor networks, natural language processing		
PUBLICATIONS	<p>M. Munkhoeva, Y. Kapushev, E. Burnaev and I. Oseledets, <i>Quadrature-based Features for Kernel Approximation</i> (Spotlight) Neural Information Processing Systems (NeurIPS 2018) arxiv.org/abs/1802.03832, code: github.com/maremun/quffka</p> <p>A.Tsitsulin*, M. Munkhoeva*, D. Mottin, P. Karras, A. Bronstein, I. Oseledets, E. Müller <i>The Shape of Data: Intrinsic Distance for Data Distributions</i> International Conference on Learning Representations (ICLR 2020) openreview, code: github.com/imd-iclr/imd</p> <p>A.Tsitsulin*, M. Munkhoeva*, B.Perrozi <i>Just SLQ When You Approximate: Accurate Spectral Distances for Web-Scale Graphs</i> International World Wide Web Conference (WWW 2020)</p> <p>A.Tsitsulin*, M. Munkhoeva*, D. Mottin, P. Karras, I. Oseledets and E. Müller <i>Anytime Optimal Graph Embeddings</i> (In submission)</p>		
EDUCATION	<p>Skolkovo Institute of Science and Technology (Skoltech) Ph.D. student, Computer Science, Advisor: Ivan Oseledets</p> <p>Skolkovo Institute of Science and Technology (Skoltech) M.Sc. in Computational Mathematics, June 2016 Thesis: Using deep neural networks for machine translation with non-parallel corpora</p> <p>Massachusetts Institute of Technology (MIT), Visiting student, Fall 2015</p> <p>National Research University Higher School of Economics (NRU HSE) Bachelor Degree, June 2014, GPA 4.9/5, magna cum laude (top 3%)</p>		
SUMMER SCHOOLS	<p>Summer School on Deep Learning and Bayesian Methods, August 2017, Moscow, Russia</p> <p>Machine Learning Summer School, July 2019, London, UK</p>		
EXPERIENCE	<p>Research Assistant, Skoltech, Sep 2016 – present</p> <p>Internship, Google X, Jul 2019 – Jan 2020 Applied tensor networks in Transformer for $\sim 2\times$ inference speed-up and model compression. blog.tensorflow.org/2020/02/speeding-up-neural-networks-using-tensornetwork-in-keras.html</p>		
TEACHING EXPERIENCE	<p>Teaching Assistant</p> <p>Instructor</p> <p>Instructor</p>	<p>Numerical Linear Algebra</p> <p>Reproducible Research with Docker</p> <p>Mathematical and technical writing in English</p>	<p>Fall 2018, 2017, 2016</p> <p>Jan 2018, 2019</p> <p>Jan 2017</p>
RELEVANT SKILLS	<p>Programming</p> <p>Machine Learning</p> <p>Miscellaneous</p>	<p>Python, JAX, PyTorch, Tensorflow</p> <p>Deep Learning, Generative models (flows, GANs, VAEs), Kernels</p> <p>L^AT_EX, Git, Docker, Linux, cluster administration, SQL</p>	
OTHER	<p>Server administration, I support and maintain our laboratory's computational resources.</p> <p>NLA bot, developed a Telegram bot for home assignment submission, testing and auto-grading. github.com/maremun/nlabot</p>		
AWARDS	<p>Spring 2019 The Ilya Segalovich Award, a scholarship for young researchers from Yandex</p> <p>Spring 2019 MLSS in London 2019 Travel Grant</p> <p>Fall 2018 NeurIPS Travel Grant</p> <p>Spring 2014 NRU HSE Scholarship (for best academic performance)</p>		
REFERENCES	<p>Ivan Oseledets, Associate Professor, Skolkovo Institute of Science and Technology, i.oseledets@skoltech.ru</p> <p>Andrzej Cichocki, Professor, Skolkovo Institute of Science and Technology, a.cichocki@skoltech.ru</p>		