Michael Figurnov

E-mail: michael@figurnov.ru

Education

Lomonosov Moscow State University (MSU), Moscow, Russia

- PhD candidate, October 2013 – present (expected graduation: late 2017)
  - Topic: deep learning for computer vision
  - Advisor: Dmitry Vetrov
  - GPA 5.0/5.0 (passed the PhD preliminary exams)
- Specialist (equivalent of MSc) in Applied Mathematics and Computer Science, September 2008 – June 2013
  - Graduated with honors, GPA 4.9/5.0
  - Area of study: Machine Learning

Academic experience

Google Seattle, USA

- Intern, July 2016 - October 2016
  - Project: adaptive computation time for image classification and object detection
  - Host: Li Zhang

University of Toronto, Canada

- Visiting student, September 2015 – December 2015
  - Project: visual attention for computer vision
  - Advisor: Ruslan Salakhutdinov

Microsoft Research Cambridge, UK

- Visiting student, September 2014 - October 2014
  - Project: joint reasoning about image classification and image segmentation
  - Advisor: Pushmeet Kohli

Publications

- **Michael Figurnov**, Aijan Ibraimova, Dmitry Vetrov and Pushmeet Kohli. "PerforatedCNNs: Acceleration through Elimination of Redundant Convolutions." NIPS 2016
- **Michael Figurnov,** Kirill Struminsky and Dmitry Vetrov. "Robust Variational Inference." NIPS Workshop on Advances in Approximate Bayesian Inference, 2016
- **Michael Figurnov** and Alexander Kirillov. "Linear combination of random forests for the Relevance Prediction Challenge." Workshop on Web Search Click Data (WSCD2012) of ACM International Conference on Web Search and Data Mining (WSDM). Seattle WA, USA, 2012

Awards

- 2nd place (out of 85), Relevance Prediction Challenge, Yandex, 2011
- 3rd place award, Intel ISEF (world-wide science competition for high-school students), 2008
- Russian Ministry of Education award for talented youth, 2014
- 3rd place award, faculty-wide thesis competition, CMC MSU, 2013

Industrial experience

- R&D engineer, Lamoda.ru, Russia, March 2013 – May 2014
  - Development of personalization and recommendation system for fashion e-commerce

    - Implemented a website recommendation system from scratch, with significant improvement of metrics compared to the previously used commercial system
    - Technologies: Python, NumPy, Hadoop, Hive
- Data Mining Researcher, Ozon.ru, Russia, August 2011 – February 2013
    - Development of recommendation system for e-commerce
    - Technologies: Python, NumPy, Microsoft SQL Server

Technical skills

- Programming languages: Python, Lua, C++, CUDA, MATLAB
- Deep learning frameworks: TensorFlow, Caffe, Torch7, Matconvnet
- Hadoop, Hive

Teaching experience

- TA, **Bayesian Methods of Machine Learning** and **Graphical Models** courses, Skoltech, MSU and Yandex's School of Data Analysis, 2014-2015
- Lead instructor, **Machine Learning practical classes**, MSU, September 2014 – May 2015

Administration

- Co-organizer of Bayesian methods of machine learning seminar at MSU (jointly with Dmitry Vetrov, Dmitry Kropotov), 2013-present
- Chair of Machine Learning section of student conference Lomonosov, 2015
- Member of CMC MSU's Council of Young Scientists, 2014-2015

Languages

- English (fluent)
- Russian (native)

Citizenship

Russian

Languages

- English (fluent)
- Russian (native)

References

- Dmitry Vetrov, PhD
  Professor, Higher School of Economics
  E-mail: vetrovd@yandex.ru
- Ruslan Salakhutdinov, PhD
  Assistant Professor, University of Toronto
  E-mail: rsalakhu@cs.toronto.edu
- Pushmeet Kohli, PhD
  Principal Researcher, Microsoft Research Cambridge
  E-mail: pkohli@microsoft.com
- Daria Migunova, PhD
  Technical Program Manager, Google
  E-mail: d.migunova@gmail.com