Yaroslav Ganin

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Education

2013 – present	**PhD student**, *Skolkovo Institute of Science and Technology (Skoltech)*.
2011 – 2013	**MSc in Data Analysis**, *Yandex School of Data Analysis*.
2006 – 2011	**Specialist (MSc equivalent) in Applied Mathematics (with honours)**, *Department of Mathematics and Mechanics, Moscow State University*.

Master thesis

Title	*Semantic decomposition of images based on segmentation trees*
Supervisors	Dr. D. Ivanov (Moscow State University), Victor Lempitsky (University of Oxford)

Experience

12/2011 – 12/2012 Workstation Devtech Manager, *NVIDIA*, Moscow.
- Computer vision research (image segmentation and boundary detection);
- CUDA SDK development;
- OpenACC support.

02/2011 – 12/2011 Tegra Devtech Intern, *NVIDIA*, Moscow.
Was involved into several projects, including:
- Android Dalvik Java VM modification;
- Custom Android NDK development.

08/2010 – 12/2010 Developer, *SIS Labs*, Moscow.
- Developed a web crawler (C/C++/Python)
- Developed an iPhone application (official app for Russian Football Premier League) (Objective-C)
- Worked on implementation of a method for detecting seismically active zones (C/C++)

Winter 2009 Developer, *Gigabase Ltd.*, Moscow.
- Developed plugins for the search engine statistics server (C/C++)
- Worked on the front-end for the visitors counter service (C/C++)

06/2008 – 06/2009 Developer, *Corporation Russian Systems*, Moscow.
- Implemented subsystem for tracking human voice in audio stream (VAD) (C/C++)

Computer skills

Programming	**Primary:** C/C+, MATLAB, Python **Familiar:** Objective-C, PHP, Pascal/Delphi, Ruby
Frameworks, Libs, APIs	OpenCV, CUDA, pthreads, MPI, Qt, Cocoa
Scientific software	MATLAB, Maple, LaTeX

Personal information

Languages English (Upper-intermediate), Russian (Native), German (Basic)

Activities

May 2011 Participated in **GTC 2012** (San Jose, CA): poster presentation on efficient implementation of segmentation trees

July 2011 Participated in **Microsoft Computer Vision School (MCVS)**

List of completed online courses

Coursera:
- **Neural Networks for Machine Learning** (98.2% score).
- **Probabilistic Graphical Models** (99.7% score).
- **Machine Learning** (100% score).
- **Algorithms, Part I**.
- **Image and video processing: From Mars to Hollywood with a stop at the hospital** (95.5% score).
- **Algorithms: Design and Analysis, Part 1** (96.0% score).
- **Algorithms: Design and Analysis, Part 2** (95.0% score).
- **Linear and Discrete Optimization** (92.1% score).
- **Heterogeneous Parallel Programming** (103.1% score).

Other:
- **Learning From Data** by Yaser S. Abu-Mostafa.

Interests

Development Developed 2D games for Windows Mobile platform (C/C++), worked on a quiz-game-based social network (Python/Ruby/Ruby on Rails)

Mathematics Planar geometry, geometry of triangles and quadrilaterals (discovered an analogue of Euler's line for an arbitrary quadrilateral)

Extra

Hobbies Guitar (playing, recording, performing), music composition, reading, football (soccer)

Publications

[1] Yaroslav Ganin and Victor S. Lempitsky. N^4-fields: Neural network nearest neighbor fields for image transforms. *CoRR*, abs/1406.6558, 2014.

[2] Yaroslav Ganin and Victor S. Lempitsky. Unsupervised domain adaptation by backpropagation. *CoRR*, abs/1409.7495, 2014.