

# Notchenko Alexandr Vladimirovich

<https://gangiman.github.io/>

## Basic info

- mobile phone number - +7 910 415 02 97
- Personal email - avnotchenko@gmail.com
- Academic email - a.notchenko@skoltech.ru
- Native speaker of Russian, fluent in English, learning French

## Current Role

Skolkovo Institute of Science and Technologies , October 2016 - Now

- 3-rd year PhD student studying Artificial Intelligence and Machine Learning.
- thesis topic: "Probabilistic deep learning systems for Inverse Graphics problem".

## Education

- PhD student, Institute for Information Transmission Problems , 2013 - 2015
  - Neuroscience of motor control 2013 - 2015 (My interest shifted from Neuroscience research)
- B.S Applied Mathematics, Bauman Moscow State Technical University , 2009 - 2014
- S.D Information Security, Bauman Moscow State Technical University , 2007 - 2013

## Employment

- Research Engineer, IITP laboratory "Data Analysis and Predictive Modeling" - December 2015 - January 2017
  - Helped develop and move into production Anomaly Detection system.
- Deep Learning Research Engineer, Teatrall - October 2014 - January 2016
  - Trained a number of Computer Vision models using Deep Learning to perform Clothing recognition.
  - Developed from scratch Clothing Detection and Retrieval systems.
- Python Software Engineer, Mirantis - August 2013 - June 2014
  - Commiter to various OpenStack projects.
  - Cluster deployment system Fuel.
- Software Engineer, Wobot - September 2012 - July 2013
  - Created multiple customer facing services.
  - Built large scale Social Network Analysis systems.
- Publishing company "Corpus"

- Technical Editor of Russian translation of "Steve Jobs" by Walter Isaacson. - October 2011
- Scientific consultant on several other translations. ("Mapping the Mind" by Rita Carter, "The Dead Hand" by David Hoffman)
- Research Assistant , Laboratory of neural structure of the brain, Research Center of Neurology, July 2011–June 2012.
  - Assisted with histological studies of brain tissue affected by degenerative disease.
  - Prototyped robotic microscopy systems with computer vision system for image analysis.

## Skills

- Applied Scientific Research in following fields: Artificial Intelligence, Machine Learning, Neuroscience, Computational and Mathematical modeling.
- Information Technologies:
  - Distributed Systems (Spark, Hadoop, MPI) - some experience
  - Databases (Postgres, MySQL, Redis, SQLite, MongoDB) - efficient user
  - DevOps technologies (Docker, Vagrant, SaltStack) - some experience
  - Service Development and other Back-End development
  - Information Security
- Programming languages:
  - Expert level: Python, Matlab.
  - Efficient user level: C / C++, JavaScript, C# / Java.
  - Beginner level: Scala, Clojure.

## Fields of Research Interest

Computer Vision as Inverse Graphics, 3D Deep Learning, Unsupervised Learning, Bayesian Machine Learning, Robotics.

## Teaching Experience

At Skoltech, course Instructor: Evgeny Burnaev.

- Teaching assistant "Machine Learning" Course (Feb-April 2017).
- Teaching assistant "Bayesian Machine Learning" Course (April-June 2017).

## Selected Publications

- A. Notchenko, E. Kapushev, & E. Burnaev. Large-Scale Shape Retrieval with Sparse 3D Convolutional Neural Networks // AIST-2017, Lecture Notes in Computer Science, Springer
- Notchenko, A., Kapushev, E., & Burnaev, E. (2016). Sparse 3D Convolutional Neural Networks for Large-Scale Shape Retrieval. *arXiv preprint arXiv:1611.09159*, Presented at "3D Deep Learning" workshop NIPS'16