Anton Gusarov

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RESEARCH EXPERIENCE

ITMO University, e-Science Research Institute, St. Petersburg, Russia   **Sep 2016 – Feb 2018**
Researcher
Project 'Mathematical modelling and simulation of Arctic climate for the previous 50 years':
− Research in data assimilation methods to fuse observations of weather stations with output of numerical models,
− Statistical analysis and visualization of meteorological processes and time-series,
− Writing educational materials, publishing scientific papers, presentations on conferences and research visits,
− Applications to scientific grants, reporting to the funding bodies.

Junior researcher in complex networks   **Sep 2013 – Jun 2014**
Project 'Monitoring of the informal groups' network activity' in collaboration with the University of Amsterdam:
− Research of packet information transfer over complex networks,
− Support in organizing scientific conferences and public events in the lab.

NON–ACADEMIC WORK EXPERIENCE

ALTEN AB, Gothenburg, Sweden   **Mar 2018 – current**
IT Consultant
• Assignment at **Zenuity AB**, Sep 2019 – Dec 2019:
− Data analysis for Advanced Driver Assistance Systems.

• Assignment at **Ericsson AB,** Mar 2018 – July 2019:
− Network performance modelling for testing and evaluating perspective product solutions,
− Analysis and visualization of in-field measured data.

EDUCATION

Halmstad University, Sweden   **Feb 2020 – current**
MAISTR (Data Analytics and Service Innovation based on Artificial Intelligence) program:
'Deep learning with applications' course, 7.5 CP.

Chalmers University of Technology, Sweden   **Sep 2019 – current**
University-level courses for working professionals:
'Bayesian data analysis and machine learning', 'Linear statistical models', 'Object-oriented programming in Python'.

KTH Royal Institute of Technology, Sweden   **Sep 2014 – Dec 2017**
MSc in Electrical Engineering, Program: 'Wireless Systems'
Study was fully covered by a scholarship from the Swedish Institute.

ITMO University, St. Petersburg, Russia   **Sep 2013 – Jun 2014**
MSc in Computer Science
Program: 'Big Data and Machine Learning'

St. Petersburg State University of Telecommunications   **Sep 2005 – Jun 2010**
Engineer's degree in Electrical Engineering

SOFTWARE

Python, NumPy, Scikit-learn, Pandas, Keras, TensorFlow, R, R-studio, ggplot2, MATLAB, git, UML, LaTeX.

PUBLICATIONS

− List of reviewers, *IEEE Transactions on antennas and propagation*, vol. 67, no. 1, pp 695-704, 2019.
− A. Gusarov, A. Kalyuzhnaya, and A. Boukhanovsky, "Spatially adaptive ensemble optimal interpolation of in-situ observations into numerical vector field models," *Procedia Comput. Sci.*, vol. 119, pp. 325–333, 2017.
− A. Karlsson, O. Al-Saadeh, A. Gusarov, R. V. R. Challa, S. Tombaz, and K. W. Sung, "Energy-efficient 5G deployment in rural areas," in *2016 IEEE 12th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob)*, pp. 1–7, 2016.
− A. Ryzhkov, V. Sivers, A. Vorobyov, A. Gusarov, A. Slyshkov, and R. Shunkov, "4G Radio Access Networks: LTE, WiMAX." St. Petersburg: Link Press, 2012.

CONFERENCES, SCHOOLS AND ACADEMIC VISITS

Ericsson internal conference, TEAM 2018 **Sep 2018**

Chalmers University of Technology, Gothenburg, Sweden **Jan 2018**
Research internship at the Department of Electrical Engineering.

International Young Scientists Conference in HPC and Simulation, Kotka, Finland **Nov 2017**

Aalto University, Helsinki, Finland **Aug 2017**
Research visit to the Department of Signal Processing and Acoustics.

Nanyang Technological University, Singapore **Feb 2015**
Winter school: 'Introduction to complexity science'.

TEACHING EXPERIENCE

Teaching assistance and writing lab instructions for MSc students at ITMO University.

REFEREEING AND REVIEWING

− Reviews on papers for 'IEEE Transactions on Antennas and Propagation' journal.
− 5th International Young Scientists Conference in High Performance Computing and Simulation, Review on a conference paper.

PERSONAL DETAILS

− Year of birth: 1988.
− Languages other than English: Russian (native), Swedish (basic).