

# Anton Gusarov

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## EXPERIENCE

**ALTEN AB**, Gothenburg, Sweden

Mar 2018 – current

### Consultant

- Assignment at **Zenuity AB**, Sep 2019 – current:
  - Data annotation and analysis for the autonomous driving 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.

**ITMO University** ([e-Science Research Institute](#)), St. Petersburg, Russia

Sep 2016 – Feb 2018

### Researcher in data assimilation methods

Project ‘Mathematical modelling and simulation of Arctic climate for the previous 50 years’:

- Implementation of data assimilation algorithms i.e. combining of observational data with output from internal HPC numerical models run on large datasets,
- Statistical analysis and visualization of spatio-temporal processes and time-series,
- Writing educational materials, publishing scientific papers, presentations on conferences and research visits,
- Reviewing of scientific publications incl. IEEE journals,
- Applications to scientific grants, reporting the ongoing progress for funding bodies.

### Junior researcher in complex networks

Sep 2013 – Jun 2014

Project ‘Monitoring of the informal groups’ network activity’ held 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.

## EDUCATION

**Chalmers University of Technology**, Gothenburg, Sweden

Sep 2019 – current

### University-level courses for working professionals

Courses: ‘Bayesian data analysis and machine learning’, ‘Linear statistical models’, ‘Object-oriented programming in Python’.

**KTH Royal Institute of Technology**, Stockholm, Sweden

Sep 2014 – Dec 2017

MSc in Electrical Engineering (‘Wireless Systems’ program).

Study was fully covered by a competitive [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 AND TOOLS

Python, R, MATLAB/Simulink, C, NumPy, Scikit-learn, Keras, LaTeX.

Confluence, Jira, Slack, git.

## SCIENTIFIC 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.

## RESEARCH VISITS AND CONFERENCES

<b>Ericsson internal conference, TEAM 2018</b>	Sep 2018
<b>Chalmers University of Technology</b> , Gothenburg, Sweden Research internship at the Department of electrical engineering.	Jan 2018
<b>International Young Scientists Conference in HPC and Simulation</b> , Kotka, Finland	Nov 2017
<b>Aalto University</b> , Helsinki, Finland Research visit to the Department of Signal Processing and Acoustics.	Aug 2017
<b>Nanyang Technological University</b> , Singapore Winter school: 'Introduction to complexity science'. Won a highly competitive travel grant from the host university to cover the trip.	Feb 2015