Anton Gusarov

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Technologies and Tools

- **Languages/tools**: Python, MATLAB, R, SQL, git, bash, Jupyther, LaTeX.
- **Frameworks**: TensorFlow, Keras, Scikit-Learn, NumPy, Pandas.
- **Machine learning methods**: Statistical inference, regression analysis, classification, clustering analysis, decision trees, ensemble methods, CNN, RNN.

Education

- **Chalmers University of Technology** — Gothenburg, Sweden
  University-level courses for working professionals — *Sep. 2019 – May 2020*
  - **Coursework**: "Bayesian data analysis and machine learning (Learning from Data)", 7.5 hp; "Linear statistical models", 7.5 hp; "Object-oriented programming in Python", 7.5 hp.
- **KTH Royal Institute of Technology** — Stockholm, Sweden
  Master of Science in Electrical Engineering. 'Wireless Systems' programme. — *Sep. 2014 – Jun. 2016*
  - **Awards**: Swedish Institute's Visby scholarships for master's studies in Sweden.
- **M.A. Bonch-Bruevich State University of Telecommunications** — St. Petersburg, Russia
  Engineer's Degree in Electronics and Informatics. — *Sep. 2005 – Jun. 2010*

Work Experience

- **ALTEN Sweden** — Gothenburg/Stockholm, Sweden
  Consultant — *Mar 2018 – Present*
  - **Assignment in Veoneer**: As a member of the algorithms pre-dev team I developed a methodology and software prototype for car lidars calibration based on point cloud data processing and system's model optimization.
  - **Assignment in Zenuity**: Contributed to the safety improvement of the advanced driver assistance (ADAS) system; Provided annotated data input to the active learning and analyzed system's performance in unusual road situations.
  - **Assignment at Ericsson**: Pursued technical studies related to product development: data science for enhancing mobile access network performance e.g. mobility management; Analyzed mobile networks data converting it into actionable insights and improvements.
- **ITMO University** — St. Petersburg, Russia
  Researcher/Data Scientist — *Sep 2016 – Feb 2018*
  - **Project "Mathematical Modeling and Simulation of Arctic climate"**: Developed a data assimilation method for the time-varying vector fields post-processing; Studied methods for anomaly detection and pattern recognition in weather time-series; Delivered synthetic high-volume data and project outcomes to the business customer (an oil extraction company); Presented research outcomes at scientific conferences and workshops; Teaching assistantship and student's supervision.
- **ITMO University** — St. Petersburg, Russia
  Research Assistant — *Sep 2013 – Jun 2014*
  - **Project "Monitoring of the informal groups' network activity"**: Developed computational models for information transfer over complex networks with dynamically changing topology resembling social interactions within informal groups. Collaborative project with the University of Amsterdam.
- **Trans-IT** — St. Petersburg, Russia
  Junior Developer — *Sep 2011 – Jul 2013*
  - **Responsibilities**: Developed UI-testing automation framework, implemented modules of business logic and integration with third-party services for internal products of "The Russian Railways". Hierarchical classification of user complains to hardware technical support.

Peer-reviewed 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.

Research visits, conferences and internships

- **The Ericsson Technical Meeting**: Presentation: "Mutual coupling and calibration errors modeling in network systems simulators"; Gothenburg, *Sep 2018*.
- **Chalmers University of Technology**: Visiting scholar at the Department of Electrical Engineering; *Dec 2017 – Jan 2018*.
- **International Young Scientists Conference in High Performance Computing and Simulation**: Presentation: "Spatially adaptive ensemble optimal interpolation of in-situ observations into numerical vector field models"; Kotka, Finland, *Nov 2017*.
- **Nanyang Technological University, Singapore**: Winter school: "Introduction to complexity science". Covered by a highly competitive travel grant from the host university, *Feb 2015.*