Sergei Volkov

Curriculum Vitae

Personal

Citizenship	**Russian**
Languages	**Mother tongue: Russian** **English: C1 ()** **German: B1 ()**
Driving license	**European Driving License: B, C**
GitLab/GitHub	**gitlab.com/taranarmo, github.com/taranarmo**

Education

2010 – 2015	**Specialist degree in Energy Supplies**, *Petrozavodsk State University*

Work experience

Jan 2016 – now	**Research assistant**, *Northern water problems institute* Data analysis, field work, experiment design, data processing frameworks developlment, academic writing, editing and typesetting
Aug 2023 – Feb 2024	**Data scientist**, *Crocus Labs GmbH* Software development, product design
Jun 2021 – Mar 2023	**PhD Student**, *Leibniz-Institut für Gewässerökologie und Binnenfischerei (IGB Berlin)* Research design, data processing, field work *Partial employment as a PhD study salary. Wasn't finished due to low performance and wrong expectations from both sides.*
Oct 2020 – Feb 2023	**Data QA**, *Playrix* data analysis and validation, ETL design, manual and automated QA *QA in data engineering and then product team*
Mar 2020 – Oct 2020	**QA engineer**, *Playrix* manual QA, automation
Nov 2019 – Feb 2020	**Data analyst**, *Playrix* data analysis, automation, user tracking events design
May 2016 – Jul 2020	**Teaching assistant**, *Petrozavodsk state university* Educational program design, lecturing, teaching, exams *Thermodynamics, heat transfer and other courses*

Technical Skills

Development	Currently I'm using **Python** (mainly with **PyData** stack), loving **Julia** and learning **Nix**, **Linux** user since 2009. Can write complex **SQL** query statements and do DBMS management in both SQL-like and **NoSQL**. Able to work with **Docker** and other containerization tools, used Docker container as an environment to compile MATLAB package with external dependencies including OpenCV via CMake, built simple **IoT** showcase using Docker.

Familiar with **MATLAB**, learned **JS** and **C/C++** a long time ago.

Communication skills

- Teaching
- Coaching
- Leading

Organisational / managerial skills

- Field work orginizing
- Managing small team of developers
- Project management

Projects

2015 – 2017   **Lake Onego: life under the ice**, *NWPI*
Research and field work
Joined interdisciplinary project to study the under-ice life

2021 – 2023   **Lake pycnoclines trap organic particles forming hot spots of accelerated carbon cycling in the water column (PycnoTrap)**, *IGB Berlin*
Joined interdisciplinary project researching sinking and degradation of biomass in the turbulent environment (lake water column)

Awards - Certifications - Licenses

2017   **Machine Learning**, *Stanford University at Coursera*
Certificate available at https://www.coursera.org/account/accomplishments/verify/U4VGJWXFGMS9

Voluntary

2013 – 2015   **Garbage collection**, *On multiple sites near Onego Lake*, Petrozavodsk, Russia
2011 – now   **OpenStreetMap**, *Data surveys and contribution*, Republic of Karelia, Russia

Thesis

2015   **Noniterative heat exchanger calculation**
Supervisor: Professor Sergei Bogdanov

The thesis proposes direct analytical calculation procedure for heat exchanger design, avoiding using of optimization techniques

Publications

2021   **Full Reynolds stress tensor of convective turbulence estimated with paired acoustic Doppler current profilers**, *S. Bogdanov, G. Kirillin, S. Volkov, G. Zdorovennova*

2019   **Fine scale structure of convective mixed layer in ice-covered lake**, *S. Volkov, S. Bogdanov, R. Zdorovennov, G. Zdorovennova, A. Terzhevik, N. Palshin, D. Bouffard, G. Kirillin*

2019 **Under-ice convection dynamics in a boreal lake**, *D. Bouffard, G. Zdorovennova, S. Bogdanov, T. Efremova, S. Lavanchy, N. Palshin, A. Terzhevik, L. Vinnå, S. Volkov, A. Wüest, R. Zdorovennov, H. Ulloa*

2019 **Structure and dynamics of convective mixing in Lake Onego under ice-covered conditions**, *S. Bogdanov, G. Zdorovennova, S. Volkov, R. Zdorovennov, N. Palshin, T. Efremova, A. Terzhevik, D. Bouffard*

2018 **Albedo of a Small Ice-Covered Boreal Lake: Daily, Meso-Scale and Interannual Variability on the Background of Regional Climate**, *G. Zdorovennova, N. Palshin, T. Efremova, R. Zdorovennov, G. Gavrilenko, S. Volkov, S. Bogdanov, A. Terzhevik*

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