

# 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](https://gitlab.com/taranarmo), [github.com/taranarmo](https://github.com/taranarmo)**  
LinkedIn **[www.linkedin.com/in/taranarmo](https://www.linkedin.com/in/taranarmo)**

### Education

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

### Work experience

Jan 2016 – **Research assistant**, *Northern water problems institute*  
now Data analysis, field work, experiment design, data processing frameworks development, academic writing, editing and typesetting  
Aug 2023 – **Data scientist**, *Crocus Labs GmbH*  
Feb 2024 Software development, product design  
Jun 2021 – **PhD Student**, *Leibniz-Institut für Gewässerökologie und Binnenfischerei (IGB Berlin)*  
Mar 2023 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 – **Data QA**, *Playrix*  
Feb 2023 data analysis and validation, ETL design, manual and automated QA  
*QA in data engineering and then product team*  
Mar 2020 – **QA engineer**, *Playrix*  
Oct 2020 manual QA, automation  
Nov 2019 – **Data analyst**, *Playrix*  
Feb 2020 data analysis, automation, user tracking events design  
May 2016 – **Teaching assistant**, *Petrozavodsk state university*  
Jul 2020 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 organizing
- 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. Zdrovennova

- 2019 **Fine scale structure of convective mixed layer in ice-covered lake**, *S. Volkov, S. Bogdanov, R. Zdrovennov, G. Zdrovennova, A. Terzhevik, N. Palshin, D. Bouffard, G. Kirillin*
- 2019 **Under-ice convection dynamics in a boreal lake**, *D. Bouffard, G. Zdrovennova, S. Bogdanov, T. Efremova, S. Lavanchy, N. Palshin, A. Terzhevik, L. Vinnå, S. Volkov, A. Wüest, R. Zdrovennov, H. Ulloa*
- 2019 **Structure and dynamics of convective mixing in Lake Onego under ice-covered conditions**, *S. Bogdanov, G. Zdrovennova, S. Volkov, R. Zdrovennov, 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. Zdrovennova, N. Palshin, T. Efremova, R. Zdrovennov, G. Gavrilenko, S. Volkov, S. Bogdanov, A. Terzhevik*

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