

## PERSONAL INFORMATION

**Sergei Volkov** [github.com/taranarmo](https://github.com/taranarmo) [gitlab.com/taranarmo](https://gitlab.com/taranarmo) [www.linkedin.com/in/taranarmo](https://www.linkedin.com/in/taranarmo) **ORCID** [0000-0002-5385-1541](https://orcid.org/0000-0002-5385-1541)**Date of birth** Dec 16, 1990

## WORK EXPERIENCE

Aug 2023 – Feb 2024

**Data scientist**

Crocus Labs GmbH

*Software development, Software architecture, Product design, Project management, Testing, Team leading**Despite position name my job was primarily software development as the product wasn't ready at my arrival*

Jun 2021 – Mar 2023

**PhD Student**

Leibniz-Institut für Gewässerökologie und Binnenfischerei (IGB Berlin)

*Research design, Data processing, Field work, Linux systems administration, DevOps**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, Validation, ETL design, Manual and automated QA**QA in data engineering and then product team. SQL, Python, Apache Spark, Analytics, RegEx, psql, Bash.*

Mar 2020 – Oct 2020

**QA engineer**

Playrix

*Manual QA, Automation, Teaching, Testing documentation writing, MitM traffic sniffing, Statistical analysis*

Nov 2019 – Feb 2020

**Data analyst**

Playrix

*Data analysis, Automation, User tracking events design, Reporting and presenting to stakeholders**SQL, Python, Analytics, DataViz, BigData*

May 2016 – Jul 2020

**Teaching assistant**

Petrozavodsk state university

*Educational program design, Lecturing, Teaching**Thermodynamics, heat transfer and other courses*

Jan 2016 – now

**Research assistant**

Northern water problems institute

*Data analysis, Field work, Experiment design, Data processing frameworks development, Academic writing, editing and typesetting*

## EDUCATION AND TRAINING

2010 – 2015 **Specialist degree in Energy Supplies**

Petrozavodsk State University

## PERSONAL SKILLS

Mother tongue Russian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	B1	B1	A2	A2	B1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills

- Presenting
- Teaching
- Feedback sharing
- Active listening

Organisational / managerial skills

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

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

[Digital competences - Self-assessment grid](#)

Computer skills

- **Development:** Currently I'm using **Python** (numpy, pandas, sqlalchemy, matplotlib), loving **Julia** and learning **Nix**, **Linux** user since 2009 (Bash/zsh for scripts and oneliners, system management, remote server administration via **SSH**)  
 Can write complex **SQL** query statements (with analytic/window functions, subqueries, optimization etc.) and do simple 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  
 Designed a **AWS** architecture for a **IoT** application (smart lamps for green houses)  
 Built a simple **IoT** showcase using Docker  
 Familiar with **MATLAB**, learned **JS** and **C/C++** a long time ago (can read and write not to complex code)  
 Fan of cryptography and self hosted solutions

## CERTIFICATIONS AND LICENSES

Driving licence **European Driving License: B, C**

2017 **Machine Learning**

Stanford University at Coursera

Certificate available at <https://www.coursera.org/account/accomplishments/verify/U4VGJWXFGMS9>

## ADDITIONAL INFORMATION

## Projects

- 2015 – 2017 **Lake Onego: life under the ice**  
NWPI
- 2021 – 2023 **Lake pycnoclines trap organic particles forming hot spots of accelerated carbon cycling in the water column (PycnoTrap)**  
IGB Berlin

## 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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