

PERSONAL INFORMATION

Sergei Volkov github.com/taranarmo gitlab.com/taranarmo 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.*

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*

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** (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
Designed a **AWS** architecture for a **IoT** application (samrt lamps for green houses)
Built simple **IoT** showcase using Docker.
Familiar with **MATLAB**, learned **JS** and **C/C++** a long time ago.

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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