

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**I was hired to build an ETL for collecting data from smart lamps for greenhouses. However, upon my arrival, a complete redesign of the AWS architecture was necessary, which I made but eventually it was canceled. My employment ended when the company decided to switch to a self-hosted solution from cloud-based.*

Jun 2021 – Mar 2023

PhD Student

Leibniz-Institut für Gewässerökologie und Binnenfischerei (IGB Berlin)

*Research design, Data processing, Fieldwork, DevOps, Academic writing and editing**Focused on the hydrophysical aspect of a joint limnological project, with an emphasis on biomass sinking, degradation, and the carbon cycle.*

Oct 2020 – Feb 2023

Data QA

Playrix

*Data analysis, Validation, ETL design, Manual and automated QA**Hired by the data engineering team to check the legacy ETL data and conduct data quality control during migration to a new ETL. Later, responsibilities included developing Tableau dashboards and their sources, and consulting developers on calculating different metrics.*

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, AB tests**SQL, Python, Analytics, DataViz, Big Data*

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, Fieldwork, 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
- Communicating with stakeholders
- Public speaking
- Teaching/Mentoring
- Feedback sharing
- Active listening
- Remote team building

Organisational / managerial skills

- Agile, Kanban, Scrum
- Managing small teams of developers
- Task management and distribution
- 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:** *Python:* NumPy, Pandas, SQLAlchemy, Matplotlib, concurrency, Plotly
SQL: Analytic/window functions, query optimization
Data: Spark, Snowflake, dbt, Tableau, Looker, Plotly Dash, Spreadsheets
NoSQL: DynamoDB, MongoDB
Linux: Bash, system management, SSH, Nix
Containers: Docker, systemd-nspawn, LXC, Kubernetes, chroot
IaC: Terraform, Pulumi, Nix
General: Git, Vim, Emacs, Jupyter
CI/CD: GitHub Actions, TeamCity, GitLab
Cloud: AWS, GCP
Typesetting: Markdown, LaTeX, Pandoc
Other: Julia, MATLAB, minor knowledge of JS, C/C++
 - **Analytical:** AB test design and analysis
Cohort analysis
Time-series analysis
Descriptive and inferential statistics
Machine learning basics
Data wrangling
 - **Research:** *Fieldwork:* Organizing, sampling, working with probes, logistics, hand and power tools
Writing: Academic writing, editing, publishing, proofreading
Data processing: Writing ad-hoc frameworks, automation, visualization

CERTIFICATIONS AND LICENSES

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

2017 Machine Learning

Stanford University on 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 a direct analytical calculation procedure for heat exchanger design, avoiding the use of optimization algorithms

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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