

GESER DUGAROV, Ph.D.

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languages: English (advanced), Russian (native)
location: Novosibirsk, Russia



SUMMARY

Helping professionals to work smarter, not harder by creating automatic systems for their routine. Made transition to data-driven R&D in the IT industry after 12 yrs in fundamental research. Holds a degree of a Doctor of Philosophy (Ph.D.) in Geophysics. Experienced in project and research management.

TECHNICAL SKILLS

Python, Docker, Git, Linux, Matlab

WORK EXPERIENCE

ML Research Engineer, **II/2022 – current**
[Digital Research](#) (spinoff of [Digital Clouds](#))

Solutions development in computer vision (CV). Leading a team of 5 members.

Achievements. Developed and integrated time-reporting system for vehicles monitoring in the construction industry.

Python, Docker, Git, Linux

Senior Researcher, **X/2009 – current**
[Trofimuk Institute of Petroleum Geology and Geophysics SB RAS](#)

Research planning and project management. Supervising research at undergraduate and postgraduate levels.

Achievements. Developed plugin for AVAZ inversion (leading a team of 7 members) embedded in the most used software for interpretation (Petrel, Schlumberger). Successfully completed projects supported by the two main Russian science foundations (Russian Science Foundation, 2018, 2021; Russian Foundation for Basic Research, 2021). Graduate students: 3 MSc (2022*2, 2020), 1 BSc (2020).

Python, Matlab, Git, Wolfram Mathematica (symbolic computation).

Research Associate (II/2014 – IV/2019), Research Assistant (X/2009 – II/2014)

Engineer **IX/2013 – V/2017**
[Nuclear Safety Institute RAS](#), Novosibirsk Branch (4 years)

Part-time position. Software development for numerical modelling of flow and heat-exchange of sodium coolant in fast-neutron reactors (including coolant boiling).

Achievements. Developed automated testing system with visualization of modelling results (comparing with experimental data). Updated closure relationships for two-phase coolant flow leading to more robust numerical modelling.

C++, Python, SVN.

EDUCATION

PhD, Geophysics,

Trofimuk Institute of Petroleum Geology and Geophysics SB RAS

X/2009 – XII/2013

(4 years)

MSc, Computational and Applied Mathematics,

Novosibirsk State University

IX/2004 – VI/2009

(5 years)

PROJECTS

- XII/2019 – VIII/2021 AVAZ inversion of local object anisotropy parameters from 3D seismic data
Role: team leader. Team size: 7. Customer: NTC NIS-Naftagas, Serbia.

Technology and software for AVAZ inversion of target object anisotropy parameters from 3D seismic data was developed. Software was embedded as a plugin in Petrel (commonly used software for interpretation). The plugin also allows to process 3D seismic data. It was important to integrate data processing and interpretation stages for undistorted local analysis.

- VII/2019 – VI/2021 Acoustic properties and internal structure of hydrate-bearing coal samples
Role: head of the project. Team size: 5. Supported by RSF, grant No. [19-77-00068](#).
- II/2019 – XII/2021 Fractured media modelling using synthetic samples printed on a 3D printer
Role: head of the project. Team size: 4. Supported by RFBR, grant No. 19-05-00730.
- II/2017 – XI/2018 Laboratory experiments on the formation of gas hydrates in coal samples
Role: head of the project. Team size: 4. Supported by RFBR, grant No. 17-35-80023.

HONORS AND AWARDS

- Trofimuk Memorial Medal Award from Trofimuk Institute of Petroleum Geology and Geophysics SB RAS (2021).
- “The best young researcher in Earth science organizations” from the Government of Novosibirsk (2019).

CERTIFICATES

- [Deep Learning Specialization](#), Coursera (2021).
- Machine Learning, Coursera (2021).

PUBLICATIONS

Author and coauthor of more than 50 scientific publications. Full publication track record could be found on <https://geserdugarov.github.io>, also in [WoS](#) and [Scopus](#) databases.

HOBBIES

- Going to the gym on a regular basis (since 2019).
- Reading developmental psychology and business management books.

Updated: 15.07.2022

The last updates could be found on <https://geserdugarov.github.io>