GESER DUGAROV, Ph.D.

email: geserdugarov@gmail.com
mobile: +7-913-703-1014
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 after 12 yrs in scientific research. Holds a degree of a Doctor of Philosophy (Ph.D.) in Geophysics. Experienced in project management and planning research.

TECHNICAL SKILLS

Python, Git, Matlab.

WORK EXPERIENCE

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

Research planning (looking for new promising directions) and project management. Supervising research at undergraduate and postgraduate levels.
Achievements. Developed plugin for AVAZ inversion embedded in Petrel software (leading a team of 7 members). Successfully completed projects supported by the two main Russian science foundations. Graduate students: 1 MSc, 1 BSc.
Python, *Matlab*, *Git*, *Wolfram Mathematica* (symbolic computation).

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

Engineer, part-time **IX/2013 – V/2017**
Nuclear Safety Institute RAS, Novosibirsk Branch (4 years)

Software development for numerical modelling of flow and heat-exchange of sodium coolant in fast-neutron reactors (including coolant boiling).
Achievements. Developed automation testing system with modelling result visualization. Updated closure relationships for two-phase coolant flow leading to more robust numerical modelling.
C++, *Python*, *SVN*.

EDUCATION

PhD, Geophysics, **X/2009 – XII/2013**
Trofimuk Institute of Petroleum Geology and Geophysics SB RAS (4 years)

MSc, Computational and Applied Mathematics, **IX/2004 – VI/2009**
Novosibirsk State University (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.

- 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.
- 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/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: 30.01.2022

The last version could be found on https://geserdugarov.github.io