

GESER DUGAROV, Ph.D.

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



SUMMARY

Specialist in the field of multiwave seismic survey, engaged in research of seismic wave propagation theory. Holds a degree of a Doctor of Philosophy (Ph.D.) in Geophysics. Experienced in project management and science advising. Currently exploring Data Science area.

TECHNICAL SKILLS

Python, Git, Matlab.

WORK EXPERIENCE

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

Senior Researcher (IV/2019 – current)

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)

Experimental research of acoustic properties of hydrate-bearing samples. Data processing and analysis.

Achievements. Collected data on acoustic properties of hydrate-bearing samples that became the foundation for a series of publications (8 articles and 9 conference materials). Developed plugin for Q factor estimation from vertical seismic profiling data embedded in VSPLab software (property of IPGG SB RAS).

Research Assistant (X/2009 – II/2014)

Studying velocity and attenuation of compressional and shear waves in anisotropic media.

Achievements. PhD degree in Geophysics. Developed algorithm for estimation of effective parameters of fractured media from velocity and attenuation anisotropy data.

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

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

- 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.
- 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.
- 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).
- Winner of the contest among young researchers with PhD degree in Earth sciences from the Council for grants of the president of the Russian Federation (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.

- [Dugarov G.A.](#), [Duchkov A.A.](#), and [Manakov A.Yu.](#) (2021) Acoustic properties of hydrate-bearing coal samples depending on temperature and water saturation type. *Geophysics*, 86(3), U31-U37.
- [Nikitin V.V.](#), [Dugarov G.A.](#), [Duchkov A.A.](#), [Fokin M.I.](#), [Drobchik A.N.](#), [Shevchenko P.D.](#), [de Carlo F.](#), and [Mokso R.](#) (2020) Dynamic in-situ imaging of methane hydrate formation and self-preservation. *Marine and Petroleum Geology*, 115, 104234.

HOBBIES

- Going to the gym on a regular basis (since 2019).
- Reading self-improvement, business and economics books.

Updated: 14.01.2022

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