

## GESER DUGAROV, Ph.D.

**email:** [geserdugarov@gmail.com](mailto:geserdugarov@gmail.com)  
**mobile:** +7-913-703-1014  
**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, Matlab, Wolfram Mathematica (symbolic computation), Git.

### WORK EXPERIENCE

**Senior Researcher,** **Trofimuk Institute of Petroleum Geology and Geophysics SB RAS** **X/2009 – current**  
(11 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**  
(3 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

- “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).

## 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.
- [Dugarov G.A.](#), Duchkov A.A., Duchkov A.D., and Drobchik A.N. (2019) Laboratory validation of effective acoustic velocity models for samples bearing hydrates of different type. *Journal of Natural Gas Science and Engineering*, 63, 38-46.
- Usov E.V., Butov A.A., [Dugarov G.A.](#), Kudasov I.G., Lezhnin S.I., Mosunova N.A., and Pribaturin N.A. (2017) System of closing relations of a two-fluid model for the HYDRA-IBRAE/LM/V1 code for calculation of sodium boiling in channels of power equipment. *Thermal Engineering*, 64(7), 504-510.

## HOBBIES

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

*Last update: 01.09.2021*

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