

## GESER DUGAROV, Ph.D.

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**mobile:** +7-913-703-1014  
**languages:** English (advanced), Russian (native)  
**age:** 33  
**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. Areas of expertise include seismic anisotropy of rocks, wave attenuation, and physical properties of hydrate-bearing media. 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 and project management. Supervising research at undergraduate and postgraduate levels.

*Achievements.* Leading of projects on various topics. 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 depending on various factors. Developed plugin for Q factor estimation from vertical seismic profiling data.

*Research Assistant* (X/2009 – II/2014)

Studying velocity and attenuation anisotropy of compressional and shear waves.

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

**Engineer,** **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 results visualization. Updated closure relationships for two-phase coolant flow.

*C++, Python, SVN, OriginLab* (visualization).

**QA engineer,  
ATAPY Software**

**X/2008 – VIII/2009**  
(1 year)

Testing and identifying deficiencies in document imaging, data capture and processing solutions.  
*Jira* (issue tracking), *StarTeam* (revision control), *VirtualBox* (virtualization).

**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**

- 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 – VI/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: 05.07.2021*

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