

## 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

- “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: 05.11.2021

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