

Ehsan Vosoughi

Ph.D. Candidate

A Geoscientists

A Seismologists

A programmer

Ehsan Vosoughi PhD candidate at INRS in Geoscience. I am working on monitoring pore network changes by geophysical methods, with hands-on programming. I am experienced in geophysical data processing and interpretation and worked on different laboratory and field projects.

Experience

- Oct. 2018 **Geological Survey of Canada, Quebec, Canada**
- Mar. 2019 Internship as a Professional Researcher
- Seismic-stratigraphic interpretation of 2-D and 3-D seismic data of Beauport Sea.
 - Using seismic attributes to detect hydrocarbon indicators.
 - Integrating seismic and well log data (Sonic and Resistivity) to validate the hydrocarbon indicators.
 - Spectral decomposition of hydrocarbon indicators.
 - Working with HIS Kingdom software to interpret geophysical data.
- Sep. 2015 **Black Fadjr Diamond, Tehran, Iran**
- Oct. 2017 Junior Mining engineer and researcher
- Conducting early field surveys to study and assess the feasibility and potentiality of mining operation.
 - Designing and modelling mine to monitor mine conditions under different drilling and blasting conditions.

Education

- Sep. 2018 **Ph.D., Institut national de la recherche scientifique (INRS), Quebec, Canada**
- Now GPA: 4.15/4.3
- Supervisor: Prof. Bernard Giroux**
- Main Courses: Geophysical Inversion (A⁺), Seismic Methods (A)
- Thesis Title: Geophysical Monitoring of Permafrost Degradation
- Sep. 2013 **M.Sc., Amirkabir University of Technology, Tehran Iran**
- Sep. 2015 GPA: 3.79/4
- Supervisor: Prof. Abdolrahim Javaherian**
- Main Courses: Surface Geology (A+), Sedimentary Basin Analysis (A+), Advanced Petrophysics (A-), Seismology (A+)
- Thesis Title: Seismic Wavelet Estimation by High Order Statistics
- Sep. 2010 **B.Sc., Science and Research Branch, Islamic Azad University, Tehran Iran**
- Aug. 2013 GPA: 3.83/4
- Supervisor: Prof. Kamyar Ahmadi**
- Thesis Title: Estimation of porosity and permeability by integration of near and far seismic data of production and elapsed time

Highlighted Qualifications

- **2D** and **3D** geophysical data (Seismic and ERT) **processing** (denoising, deconvolution and inversion) and **interpretation** of sedimentary deposits,
- Extracting data from and **interpreting** digitised lithological and geophysical **well log data** (sonic, gamma, neutron log),
- **Producing distribution maps of hydrocarbon indicators** and generate repots of potential hydrocarbon indicators,
- **Quantitative** and **qualitative characterization** of hydrocarbon indicators,
- **Geohazards investigation** by geophysical methods and laboratory scanning of cored samples,

Personal info

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Email

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Ehsvosoughi@gmail.com

Website

Ehsanvosoughi.github.io

LinkedIn

www.linkedin.com/in/ehsanvosoughi

Skills

Leadership Skilled in

Python,
MATLAB,
HIS-Kingdom,
Hampson-Russell,
ProMax

Communication Skills

Languages

English

● ● ● Advanced

French

● ● ○ Intermediate

Turkey

● ● ○ Intermediate

Farsi

● ● ● Mother
Language

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- **Large datasets of marine geophysical data** processing and interpretation,
- **Extensive laboratory experience** of geophysical monitoring of difference (un)consolidated samples,
 - Acoustic ultrasonic monitoring (acquisition and processing)
 - Electrical monitoring (acquisition and processing)
 - Medical and micro-CT scanning (acquisition and processing)
- Experience on Machine Learning Methods to solve rock type classification problems,
- Eager to learn,
- Perfect goal-oriented and efficient time management skills to push the design from start to end,
- Highly enthusiastic and quick learner of new concepts and technologies,
- Great team worker in multicultural environment with perfect communication skills to co-operate,
- Ability to work independently with excellent time management,
- Creative mine in work,
- Highly interested in new challenges and unexperienced tasks.

Highlighted Publications:

- **Vosoughi E.**, Giroux, B., Duchesne, M.J., Dupuis C., 2022. Permafrost pore content assessment: How cementation factor should be considered?, **Ready to submit.**
- **Vosoughi E.**, Giroux, B., Duchesne, M.J., Dupuis C., 2022. Understanding the effects of permafrost degradation through a multiphysics approach, **Ready to submit.**
- **Vosoughi E.**, Giroux, B., Duchesne, M.J., Dupuis C., 2022. Macro morphological study of thawing fully frozen unconsolidated sand samples, 83rd EAGE Conference and Exhibition, 2022, Madrid, Spain.
- **Vosoughi E.**, Giroux, B., Duchesne, M.J., Dupuis C., 2021. Simultaneous acoustic, electrical and X-ray computed tomography laboratory measurements of partially-saturated permafrost degradation, International Meeting for Applied Geoscience & Energy, 2021, CO, USA.
- **Vosoughi E.**, Giroux, B., Dupuis C., 2021. Early design of new experimental setup for joint elastic, electrical and CT monitoring of CO2 injection, GeoConvention2020, Alberta, Canada.
- Duchesne, M.J., Brake, V.I., Claprood, M., **Vosoughi, E.**, Huot-Vézina, G., Kang, S.G., Jang, U., Jin, Y.K., King, E.L., Côté, M.M., and Dallimore, S.R., 2020. Shallow seismic reflection mapping of the Mackenzie Trough, Beaufort Sea, offshore Yukon and Northwest Territories; Geological Survey of Canada, Open File 8657, 19 p. <https://doi.org/10.4095/321488>.
- **Vosoughi, E.**, and Javaherian, A. Parameters effective on estimating a non-stationary mixed-phase wavelet using cumulant matching approach, The Journal of Applied Geophysics, 148, 83-97, 2018. <https://doi.org/10.1016/j.jappgeo.2017.10.016>.
- **Vosoughi, E.**, and Javaherian, A. Non-stationary mixed-phase wavelet estimation by higher-order statistics in one of hydrocarbon fields of Iran, Presented at 79th EAGE Conference and Exhibition, 2017, Paris, France. DOI: 10.3997/2214-4609.201700726.
- **Vosoughi, E.**, Karbalaali, H. and Javaherian, A. Mixed-phase wavelet estimation by cumulant matching in one of hydrocarbon fields of Iran, Presented at 78th EAGE Conference and Exhibition, 2016, Vienna, Austria. DOI: 10.3997/2214-4609.201601251.

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