

# CURRICULUM VITAE

## KHANH DUC NGUYEN - GEOPHYSICAL CONSULTANT

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### PROFILE

- Master of Science degree in Geosciences from NTNU in Trondheim, Norway
- Provided consultation and geophysical counsel to management on geophysical problems and acted as a technical advisor to work teams.
- Demonstrated ability to work and communicate effectively within multi-disciplined team
- Strong geophysical background especially in petroleum geophysics
- Provided geophysical input to well planning and follow-up of drilling operations in Ormen Lange, Draugen and Gullfaks fields
- Demonstrated ability to identify areas where expertise/technology is required and come up with new ideas as well as implementation of continuous improvement to existing workflow/minimum standard

### WORK EXPERIENCE

- 01/2020 – Now**      **Experis A/S, Stavanger, Norway, Geophysical consultant**
- Lithostratigraphy for wells on the NCS (App: [LINK](#); Map: [LINK](#))
  - Map of reserves per field/discovery on the NCS ([LINK](#))
  - Lithostratigraphy for wells onshore Netherlands and DCS (Map: [LINK](#))
  - $V_p, K$  parameters estimation with uncertainty using Markov Chain Monte Carlo method (App: [LINK](#))
- 06/2019 – 12/2019**      **Equinor, Sandsli - Bergen, Norway, Geophysical consultant**
- Worked in the integrated subsurface team of Gullfaks field. Carried out time-to-depth conversion, seismic inversion, 4D modelling and analysis
  - Developing new workflows and Python codes for continuous improvement as well as creating several 'how-to' documents to share knowledge within the team.
- 04/2017 – 06/2019**      **Freelance geophysical consultant, Stavanger, Norway**
- Provided consultation services such as seismic data acquisition, processing, imaging and data management as well as 3D & 4D interpretation, modelling and analysis to oil companies.
- 10/2010 – 04.2017**      **A/S Norske Shell, Stavanger, Norway, Senior Geophysicist**
- Provided integrated seismic imaging, reservoir characterization, 4D seismic processing & analysis to exploration and development teams that include among other projects: Draugen, Ormen Lange, Barents Sea
  - Member of Ormen Lange license technical committee and participated in the asset team as well as representing operator's work and options at partner meetings.
  - Responsible for processing, velocity model building and 3D depth imaging in Europe (Norwegian, Dutch and UK North Sea, Dutch onshore) including advanced imaging technologies such as RTM, FWI, etc.
  - Member of geophysical taskforce - development and implementation of continuous improvement to the existing workflow/minimum standard: testing and evaluating the adequacy of acquisition parameters, processing/imaging techniques and interpretation methods to propose and implement updated and/or new workflows and techniques

**08/2004 – 07/2010**

**Post-graduate researcher in Scandinavia**

- Post-graduate research in sub-basalt seismic imaging & analysis (2006-2010), University of the Faroe Islands, Denmark: carried out improved seismic acquisition, processing and imaging as well as interpretation methods to overcome the challenges of “seeing through” thick basalt layers over the Faroe Islands
- Master of Science degree in Petroleum Geosciences (2004-2006), Norwegian University of Science and Technology - NTNU, Norway: time-lapse (4D) seismic processing and analysis of CO<sub>2</sub> injection into an aquifer at the Sleipner field, under the supervision of Prof. Martin Landro

**1996 – 2004**

**FairfieldNodal (USA) based in Vietnam, Senior geophysicist**

- Supervisor of a processing team carried out processing projects for clients, covering the whole processing spectrum: 2/3D re/processing, land/marine, PSDM, etc.
- Project leader for the first and largest-ever PSDM project in Vietnam in 2003 (\$US 1 million)
- Provided consultation services to a large seismic data archiving and management project for PetroVietnam (National Oil Company): more than 100000 tapes were encapsulated and managed using ORACLE database

**1994 – 1996**

**Vietnam Petroleum Institute, Vietnam, Geophysicist**

- Carried out seismic interpretation and reservoir characterization of various fields offshore Vietnam
- Took part in a joint-study project on 3D seismic interpretation with Shell Vietnam in 1995

## **EDUCATION**

**2004 – 2006**

**Norwegian University of Science and Technology - NTNU, Norway, Master of Science degree in Petroleum Geosciences**

**1989 – 1994**

**University of Mining and Geology, Vietnam, Engineering degree in Geophysics**

## **AWARDS AND GRANTS**

- Shell’s special recognition award (SRA) for developing and implementation of new workflows
- FairfieldNodal’s employee of the year twice
- EAGE’s student travel grant
- University’s fellowship for outstanding research

## IT SKILLS

- Seismic modelling, processing and imaging: Nucleus (PGS), Norsar (Norsar), SIPMAP, SMART, JobPro (Shell), ProMAX, SeisSpace (Landmark), Geodepth (Paradigm), RokDoc (Ikon Science)
- Seismic interpretation, visualization: GeoSign nDI (Shell), INTViewer (INT), Petrel, Charisma, IESX (Schlumberger), Decision Space Geoscience, GeoProbe (Landmark), Gocad-SKUA (Paradigm), PreStack Pro (Sharp Reflection), RMS (Roxar)
- Programming in Python

## LANGUAGES

- Vietnamese: mother tongue
- English: fluent
- Norwegian: A2

## REFERENCES

### SHELL

- **Alexandre Stopin - Advanced Seismic Research Manager:** *"You have picked up technology developed here in Rijswijk very efficiently and have helped to apply them in the business. Q-tomo, FWI on Ormen Lange, Draugen and the Barents Sea for example"*
- **Richard Shipp - Specialist Geoscience Manager:** *"Thank you for your contributions to the Specialist Geoscience team over the years on projects across the region and most notably your numerous improvements to our workflows; also your geophysical counsel"*
- **Diederik Van Dalen - Principal Research Geophysicist:** *"Was not aware that you are leaving us. A big loss for Shell, but I am sure your prospects outside look bright. Has always been a pleasure to work with you, you being one of our smarter SMART users"*

### EQUINOR

- **Torill Andersen - Manager Petroleum Technology:** *"I am impressed with what you managed to do during your time in Gullfaks. I hope you enjoyed your work in Equinor the last half year"*
- **Martin Leonardi - Leading Engineer Reservoir Geology & Petrophysics:** *"I learnt more from you in DSG than from anyone else in the last 10yrs: visualisation, TFL processing, 4D modeling, extract from sim model etc... you just do it"*
- **Subhro Sinha Roy - Principal Reservoir Geophysicist:** *"It's been short stint of knowing you in the last 6 months but rewarding"*