

F2F Geophysics for Data Scientists

09:00-09:30	Program, Biography, Teams
09:30-10:00	Moodle, Geophysical Methods
10:00-10:15	<i>Refreshments</i>
10:15-10:45	Seismic Data
10:45-11:15	Non-Seismic Data
11:15-12:00	Ex Shot raypaths
12:30-13:00	Gravity
13:00-14:00	<i>Lunch</i>
14:00-14:30	Magnetics
14:30-15:00	Ex Sampling and Aliasing
15:00-15:30	<i>Refreshments</i>
15:30-16:00	Ex Field Record
16:00-16:30	Quiz 1
16:30-17:00	Team A preparation

Day 2

09:00-09:30	Team A: Summary Day 1
09:30-10:00	Seismic Acquisition
10:00-10:15	<i>Refreshments</i>
10:15-10:45	Ex Gravity & Magnetics
10:45-11:15	Wave propagation
11:15-12:00	Ex Reflection & Transmission,
12:30-13:00	Seismic Processing
13:00-14:00	<i>Lunch</i>
14:00-14:30	Stacking & Migration
14:30-15:00	Ex Correlation & Convolution
15:00-15:30	<i>Refreshments</i>
15:30-16:00	Ex Diffraction
16:00-16:30	Quiz 2
16:30-17:00	Team B preparation

Day 3

09:00-09:30	Team B: Summary Day 2
09:30-10:00	Ex Migration diffraction curves
10:00-10:15	<i>Refreshments</i>
10:15-10:45	Quantitative Interpretation
10:45-11:15	Ex Migration wavefronts,
11:15-12:00	AVO/AVA
12:30-13:00	Ex Time-Depth-Conversion: Stretch
13:00-14:00	<i>Lunch</i>
14:00-14:30	Ex Amplitudes

14:30-15:00 **Ex Time-Depth-Conversion: Raytracing**
15:00-15:30 *Refreshments*
15:30-16:00 **Ex Direct Hydrocarbon Indicators**
16:00-16:30 Quiz 3
16:30-17:00 Team C preparation

Day 4

09:00-09:30 Team C: Summary Day 3
09:30-10:00 Machine Learning for Geophysics
10:00-10:15 *Refreshments*
10:15-10:45 **Ex Lith Classification**
10:45-11:15 Clustering
11:15-12:00 **Ex Facies Clustering**
12:30-13:00 DL 4D Brazil
13:00-14:00 *Lunch*
14:00-14:30 **Ex Facies-Merged_Reload_Test-Well_Classification**
14:30-15:00 Deep Learning for Geophysics
15:00-15:30 *Refreshments*
15:30-16:00 **Ex Oil Saturation Regression**
16:00-16:30 Quiz 4
16:30-17:00 Team D preparation

Day 5

09:00-09:30 Team D: Summary Day 4
09:30-10:00 You ain't seen nothing yet
10:00-10:15 *Refreshments*
10:15-10:45 **Ex Salt-Segmentation-CNN**
10:45-11:15 Semi-supervised Learning in Geophysics
11:15-12:00 **Ex Salt-Segmentation-U-net**
12:30-13:00 Inversion versus AI
13:00-14:00 *Lunch*
14:00-14:30 VOI-Geothermal & CO₂ Sequestration
14:30-15:00 **Ex AI Inversion**
15:00-16:00 *Refreshments*
15:30-16:30 Quiz 5
16:00-16:30 ChatGPT: questions you never dared to ask!