

A word cloud visualization centered around the theme of geophysics and its various applications and methodologies. The words are colored in shades of blue, gray, and white, with larger words representing more prominent concepts. The background is white, and the overall layout is organic and fluid.

The most prominent words include:

- geophysics** (large, central)
- seismogram** (large, top right)
- finite difference** (large, top right)
- inversion** (large, center)
- CNNs** (large, left)
- decoder** (large, left)
- surrogate** (large, left)
- porosity** (large, left)
- acoustic** (large, left)
- PDEs** (large, bottom left)
- arrival** (large, bottom left)
- neural network** (large, bottom center)
- FNOneural operator** (large, bottom center)
- RNNs** (large, bottom right)

Surrounding these central terms are numerous smaller words representing specific concepts and technologies:

- experimental, salt body, hyperparameter, borehole, petrophysical, wavenumber, effectiveness, FCN, SWINet (top right)
- FGA, Monte Carlo, wavelength, conditional autoencoder, software, GANs, GPU (top right)
- CNNs, oscillation, shale, hybrid, stochastic, finite difference, Helmholtz, PINNs, scattered, spectral, mesh (top right)
- decoder, Adam, Ricker, inversion, PyTorch, recurrent, supervised, PINNs, dimensionality, anisotropic (top right)
- surrogate, shear, Ricker, Eikonal, FWI, Fourier, waveform, convolutional, SEM, scattered, spectral, mesh (top right)
- porosity, WaveNet, backpropagation, RTM, optimizer, RTM, empirical, isotropic, elastic, petroleum, probabilistic (right side)
- acoustic, autoencoder, stress, deep learning, approximate, underground, travel time, CPU, LSTM, tomography (right side)
- PDEs, geosciences, downhole, iterative, mechanical, accuracy, PINNslope (right side)
- arrival, BFGS, vibration, FDM, neural network, approximate, underground, travel time, CPU, LSTM, tomography (right side)
- deep learning, stress, empirical, isotropic, elastic, petroleum, probabilistic, accuracy, PINNslope (right side)
- neural network, approximate, underground, travel time, CPU, LSTM, tomography (right side)
- FNOneural operator, benchmark, homogeneous, adversarial, PINNslope (bottom right)