Publications:

**Automatic integration of airborne EM and borehole data into regional groundwater models**  
Publication: Research - peer-review › Poster – Annual report year: 2015

**Accounting for imperfect forward modeling in geophysical inverse problems — Exemplified for crosshole tomography**  
Publication: Research - peer-review › Journal article – Annual report year: 2014

**Compressive beamforming**  
Publication: Research - peer-review › Journal article – Annual report year: 2014

**History Matching Through a Smooth Formulation of Multiple-Point Statistics**  
Publication: Research - peer-review › Journal article – Annual report year: 2014

**History Matching with Geostatistical Prior: A Smooth Formulation**  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

**Improving the Pattern Reproducibility of Multiple-Point-Based Prior Models Using Frequency Matching**  
Publication: Research - peer-review › Journal article – Annual report year: 2014

**Reservoir Modeling Combining Geostatistics with Markov Chain Monte Carlo Inversion**  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

**Sequential hydrogeophysical inversion using airborne EM for 3D hydrostratigraphical zonation**  
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2014

**Sparsity and super-resolution in sound source localization with sensor arrays**  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

**An Implementation of the Frequency Matching Method**  
Publication: Research › Report – Annual report year: 2013

**Assessing uncertainty in geophysical problems - Introduction**  
Publication: Research - peer-review › Journal article – Annual report year: 2014

**Inverse Problems in Geosciences: Modelling the Rock Properties of an Oil Reservoir**  
Publication: Research › Ph.D. thesis – Annual report year: 2013

**Inversion assuming weak scattering**  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

**Modeling and detection of oil in sea water**  
Publication: Research - peer-review › Journal article – Annual report year: 2013

**Multiple Scenario Generation of Subsurface Models: Consistent Integration of Information from Geophysical and Geological Data through Combination of Probabilistic Inverse Problem Theory and Geostatistics**  
Publication: Research - peer-review › Book – Annual report year: 2014
Albert Tarantola Memorial
Publication: Research - peer-review › Journal article – Annual report year: 2010

Kriging in High Dimensional Attribute Space using Principal Component Analysis
Publication: Research › Article in proceedings – Annual report year: 2010

Kriging interpolation in seismic attribute space applied to the South Arne Field, North Sea
Publication: Research - peer-review › Journal article – Annual report year: 2010

Monte Carlo full waveform inversion of tomographic crosshole data using complex geostatistical a priori information
Publication: Research › Article in proceedings – Annual report year: 2010

Nonlinear AVO inversion using geostatistical a priori information
Publication: Research › Article in proceedings – Annual report year: 2010

Sampling informative/complex a priori probability distributions using Gibbs sampling assisted by sequential simulation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Using geostatistics to describe complex a priori information for inverse problems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

VISIM: Sequential simulation for linear inverse problems
Publication: Research - peer-review › Journal article – Annual report year: 2008

Linear inverse Gaussian theory and geostatistics
Publication: Research - peer-review › Journal article – Annual report year: 2006

Projects:

Effective high-resolution Geological Modeling
Project: PhD

Informing groundwater models with airborne time-domain electromagnetic data
Project: PhD

Computational Geoscience - HeHo
Project: PhD

Heat Storage in Hot Aquifers
Project

Computational methods for detection and imaging of oil in sea water
Project: PhD

Deconvolution of seismic transient: A model-based signal processing approach
Project: PhD
Heat Storage in Hot Aquifers
Project

Heat Storage in Hot Aquifers
Project

Integrated Modeling of Oil Reservoirs - history matching and geostatistical analysis
Project: PhD

Integrated Modeling of Oil Reservoirs - seismic and geostatistical analysis
Project: PhD

Risk assessment and Multiple scenario Generation from Seismic and Geological Data
Project: PhD

Avanceret Reservoir Simulering
Project: PhD

History Matcging using Stochastic Methods
Project: PhD

Storskala inversionsalgoritmer
Project: PhD