

Consulting Assistant

Expertise Geosciences, with main focus on Geophysics & Rock mechanics

Education B.Sc., Geophysics, 2006
M.Sc., Geophysics, 2008
Ph.D. (in progress)
Institute of Geology, Mineralogy & Geophysics
Ruhr University Bochum, Germany

Professional Experience

2008 - Present *Itasca Consultants GmbH, Gelsenkirchen, Germany*
Student Assistant (January – February 2008)
Consulting Assistant (March 2008 – Present)

2006 - 2007 *Itasca Consultants GmbH, Gelsenkirchen, Germany*
Student Assistant (April 2006 – December 2007)

2003 – 2008 *Ruhr-University Bochum, Germany, Experimental Geophysics Group*
Student Research Assistant

Project Experience

Geophysics: Quantitative microstructure analyses of fluid-filled and other rocks; numerical modeling of seismic wave propagation in a subduction zone; deformation and synthesis experiments; strength tests; impedance analyses on saturated rock samples; Fourier analyses on records of oscillatory pressure tests; numerical analyses of pore mobility; experimental analyses of porous media with ultrasound.

Code Development: Algorithm for automatic grid generation in the *Particle Flow Code (PFC)*.