

Júlía Katrín Björke

Geochemist, MSc

ORIGIN Born 3rd of April 1984, Bærum, Norway

FAMILY Husband: Helgi Alfredsson, children: Halldór, b. 2007, Alfreð, b. '14, Viktoría, b. '17

EDUCATION

2010 MSc degree in geochemistry at the University of Iceland
2007 B.Sc. degree in geology at the University of Iceland

CAREER

2013-pres. Consultant in geochemistry and co-owner at Geochemý ehf, Mývatn.
2011-2013 Researcher at GNS Science, New Zealand. Experiments on Al-rich silica solubility.
2010 Associate researcher in field sampling and lab analysis.
2005-2006 Researcher at the laboratory at ALCAN in Iceland.

FIELD WORK EXPERIENCE

2017 Monitoring the water chemistry and dissolved nutrients in Lake Mývatn, N-Iceland.
2014 Geothermal borehole production measurements (i.e. enthalpy and flow)
2013 High temperature borehole sampling for gases, steam and brine chemistry.
2013 High temperature well monitoring for tracers, including PFTs, NDS, methanol/ethanol
2008-2010 Sampling natural steam vents and springs at Torfajökull, high temperature geothermal field, Iceland.

TEACHING

2010 Assistant teacher in Thermodynamics for graduated students, Uni. Iceland
2009 Assistant teacher at the CO2 sequestration conference field course in Iceland.
2007-2008 Assistant teacher in Geology 1A, undergraduate geology course, Uni. Iceland.

LABORATORY EXPERIENCE

X-ray Diffraction analysis

SEM analysis

Microprobe analysis

Ion chromatography (preparation and analysis)

Gas chromatography (sampling, preparation and analysis)

Inductively Coupled Plasma analysis

Spectrophotometer analysis

Experimental setup and maintenance.

COMPUTER SKILLS

Word processing: Microsoft Word, -Excel, -PowerPoint, Open Office, etc.

Aqueous geochemical modelling: USGS Phreeqc program, and Iceland GeoSurvey's WATCH program and Geochemical Workbench.

Adobe Photoshop

OTHER

2011 First Aid course training by New Zealand Red Cross.

2011 Four-wheel drive course by New Zealand CARNZ TRAINING.

2008-2009 Board member of FOLDA, Society of Grad. Students in Earth Sciences, Uni. of Iceland

2001 Iceland Driving license, category B.