# DR. SAMUEL WARREN SCOTT

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## **EDUCATION**

ETH ZURICH July 2016 | Zurich, Switzerland

Ph.D. IN GEOCHEMISTRY

ICELAND SCHOOL OF ENERGY

August 2011 | Reykjavik, Iceland

M.Sc. in Sustainable Energy

PITZER COLLEGE May 2009 | Claremont, California, USA

**B.A. IN EARTH SYSTEM SCIENCES** 

### RESEARCH RECORD

ETH ZURICH | PH.D. | Supervisors: Prof. Dr. Thomas Driesner and Dr. Philipp Weis

- Developed novel model of supercritical geothermal resource formation
- Revealed how primary geologic factors control thermal structure and location of upflow/boiling zones
- Elucidated link between depth, phase separation style and heat transfer dynamics in saline systems

### UNIVERSITY OF ICELAND | M.Sc. | Supervisors: Dr. Andri Stefánsson and Dr. Stefán Arnórsson

- Reconstructed aquifer fluid compositions of excess-enthalpy wells accounting for phase segregation
- Updated conceptual model of Hellisheidi geothermal field emphasizing geochemistry of reactive gases

### PITZER COLLEGE | UNDERGRADUATE | Supervisor: Dr. Robert Gaines

Found empirical evidence of bacterial-mediated reduction of iron in common clay minerals

### HONORS AND AWARDS

2012	Doctoral Research Fellowship	Swiss National Science Foundation
2011	National Geothermal Academy Student Fellowship	U.S. Department of Energy
2010	M.Sc. Project Grant	Reykjavik Energy

#### WORK EXPERIENCE

late 2016	Post-doctoral Researcher, ETH Zurich	Zurich, Switzerland
2003-2012	Piano Technician, Mark Scott Piano Services	Fairfield, Connecticut
2008-2009	Resident Assistant	Reykjavik Energy

#### PROFESSIONAL OUTREACH

- Invited reviewer for Water Resources Research, Hydrogeology Journal, Journal of Geochemical Exploration, Geoscience Frontiers, Journal of Marine and Petroleum Geoscience, and other journals
- Member of American Geophysical Union, Geochemical Society, Geothermal Resources Council

### RESEARCH SKILLS

#### COMPUTING

- Numerical modeling with the CSMP++ platform, including mesh generation and post-processing
- Data analysis with MATLAB and Python
- Reconstruction of aquifer fluid compositions based on surface measurements using WATCH

#### LABORATORY

- Experience with ion & gas chromatography, UV/Vis- and IR-spectroscopy, XRD, and ICP-AES
- Preparation, treatment and analysis of geothermal fluid samples

#### FIFI

- Sampling geothermal well discharges using Webre Separators
- Performing/interpreting well measurements (i.e. temperature/pressure, flow, enthalpy, drawdown)

#### **OTHER**

German (Goethe B2) and Spanish; Classically-trained pianist; Experienced outdoorsman