

Drew Thayer

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Geophysics

Hydrology

Water Resources

Education

University of Wyoming, Laramie, WY
M.S. Candidate, Geophysics and Water Resources
Advised by Dr. Andrew Parsekian

Expected Graduation May 2016

The Colorado College, Colorado Springs, CO
B.A. Geology, Distinction Thesis, GPA 3.707

Graduated May 2011

Graduate Research

- Time-lapse Electrical Resistivity Tomography (ERT): snowmelt infiltration and tree-water dynamics
- Distributed Temperature Sensor (DTS): stream-groundwater exchange
- Nuclear Magnetic Resonance (NMR): alpine water-table

Undergraduate Research

Thesis: Frequency dependence of shear-wave splitting: lithospheric structure of Bighorn Mountains, WY

- Keck Geology Consortium Fellow, Bighorns Arch Seismic Experiment (NSF EarthScope)

Quantitative and Policy Skills

- Inversion, optimization, model sensitivity analysis, time-series analysis, spatial watershed analysis
- Communicating science, western water law, water resources policy, NEPA, CWA

Field and Instrument Experience

Team leader for instrument deployments: ERT, DTS, NMR, Ground Penetrating Radar (GPR)

- Winter alpine 6-month ERT deployment on sleds
- Designed and built solar power system for automated time-lapse ERT instrument (MPT DAS-1)
- Designed and built resistivity cables for four-season monitoring
- Field course in advanced DTS calibration and methods
- 9 years' experience in technical alpine terrain, self-supported expeditions (N. and S. America)

Work Experience

Writing Correspondent, Alpinist magazine online

Oct 2014- present

- News and equipment reviews, coordinated revisions with editor and relations with industry P.R.

Paraprofessional, Geology Department, *Colorado College*

Sept - Oct 2013

- Teaching assistant: labs, field instruction

Senior Field Guide, Open Sky Wilderness Therapy, *Durango CO*

June 2011 - August 2013

- **Field:** 250 field days, 8-day shifts in CO and UT backcountry, all seasons
- **Leadership:** 100 days as Senior Field Guide, responsible for team of 4 staff and 12 clients
- Created and executed therapeutic interventions for oppositional, defiant, and depressed clients
- Supervised and mentored up to 4 field staff
- **Communication:** collaborative treatment plans with clinical therapist, psychiatrist, and logistical staff

Electrician, Durango Electric Services, *Durango CO*

Nov 2012- March 2013

- Apprentice: residential and commercial wiring

Technical Skills

Software: Matlab, ArcMap, R2 and Earth Imager resistivity inversion, Geogiga seismic inversion

Foreign Language: highly proficient in **Spanish**, translated magazine articles in Ecuador, extensive travel