

# DEREK T. LICHTNER

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Laramie, WY

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## EDUCATION

- Ph.D. Geology*, University of Wyoming, Laramie, WY *August 2017 – present*  
Dissertation: *Downstream effects of dams on sediment transport in the Missouri River*  
Advisor: Brandon McElroy
- M.S. Geology*, University of Illinois, Champaign, IL, GPA = 4.00 *July 2015*  
Thesis: *Turbulent interaction between stream flow and near-surface groundwater*  
Advisor: Jim Best
- B.S. Geology and Physics*, Temple University, Philadelphia, PA, GPA = 3.93 *May 2013*  
Thesis: *Monitoring time-lapse changes in soil moisture with geophysical methods*  
Advisor: Laura Toran

## PUBLICATIONS

- Lichtner, D.T.**, Carnes, J.D., Wittke, S.J., and Carroll, C., in review, Preliminary surficial geologic map of the Bridger Pass 7.5' quadrangle, Carbon County, Wyoming: Wyoming State Geological Survey Open File Report 2017-6, 1 sheet, scale 1:24,000.
- Wittke, S.J., Carnes, J.D., and **Lichtner, D.T.**, 2016, Preliminary surficial geologic map of the Jackson 30' x 60' quadrangle, Sublette, Teton, Lincoln, and Fremont Counties, Wyoming: Wyoming State Geological Survey Open File Report 2016-6, 1 sheet, scale 1:100,000.
- Lynds, R.M. and **Lichtner, D.T.**, 2016, Stratigraphy and hydrocarbon potential of the Fort Union and Lance Formations in the Great divide and Washakie basins, south-central Wyoming: Wyoming State Geological Survey Report of Investigations 73, 70 p., 2 pls..

## PROFESSIONAL EXPERIENCE

- Freelance Geologist* *October 2015 – Sept. 2017*
- Mapped bedrock geology in the 1:24k Bridger Pass Quadrangle near Rawlins, Wyoming
  - Mapped surface geology in the 1:100k Jackson Quadrangle near Jackson, Wyoming
  - Assessed unconventional natural gas resources in south-central Wyoming
  - Sampled monitor wells and witnessed injection well mechanical integrity tests
- Research Assistant*, Dept. of Geology, University of Illinois *August 2013 – May 2015*
- Designed and conducted laboratory flume experiments
  - Acquired multi-beam bathymetry data in the field
  - Collected and analyzed sediment samples
- Teaching Assistant*, Dept. of Geology, University of Illinois *August 2014 – May 2015*
- Designed paleontology and stratigraphy lab materials, lectured on basic geologic principles, and fostered an active learning environment
- Research Assistant*, Dept. of Earth and Environmental Science, Temple U. *April 2012 – October 2012*
- Collected electrical resistivity and ground-penetrating radar data of simulated rain events

## COMPUTER SKILLS

ArcGIS, IHS Petra, Neuralog, MatLab, Python, Arch Linux, Adobe Illustrator and Photoshop