

Jeffery Michael Valenza

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Education

- Ph.D. in Geology, Indiana University, (beginning fall 2016)
 - Research focus: Fluvial channel avulsions- numerical modelling and applications to modern and ancient systems.
 - Advisor: Dr. Douglas Edmonds
- M.S. in Geology, Brigham Young University, GPA 3.71 (summer 2016)
 - Thesis: Redbeds of the Upper Entrada Sandstone, Central Utah: Facies Analysis and Implications for Interfingering Sabkha and Dryland Fluvial Sediments
 - Advisor: Dr. Thomas Morris
 - Relevant Coursework: Advanced Stratigraphy, Advanced Sedimentology, Geoscience Data Analysis, Borehole Geophysics, Petroleum Systems Analysis, Carbonate Petrology
- B.S. in Geology, Brigham Young University (BYU), GPA 3.76 (2014)
 - Relevant Coursework: Intro to Seismic Interpretation, Geomorphology, Structure, Sedimentology and Stratigraphy, Petrology, Geological Communications

Research Experience

- Research Assistant to Dr. Thomas Morris, BYU (2013-Present)
 - Facies and Stratigraphic analysis of the Upper Entrada, across San Rafael Swell, UT, quantification and interpretation of fluvial-sabkha interactions
 - Photorealistic paleoreconstructions of important phases of Utah's geologic history, using Photo Shop to stitch together satellite photography of modern analogues into maps
- Research Assistant to Dr. Ron Harris, BYU (2011-2013, 2015)
 - Structural analysis of Timor and Timor-Leste, using whole rock geochemical analysis of ultramafic bodies in Australian-Asian suture zone, including sample preparation for XRF and ICP MS analysis and interpretation of results

Internship Experience

- Geoscience Intern, Anadarko Petroleum Corporation, The Woodlands, TX (May-August 2015)
 - Deepwater Gulf of Mexico Exploration, Supervisor: Jake Ramsey
 - Reservoir quality and top seal capacity estimation using formation pressure data derived from well log data, seismic models, and pore pressure theory
- Geoscience Intern, Whiting Petroleum Corporation, Midland, TX (May-August 2014)
 - Permian Basin Development, Mentor: John Leone
 - Sedimentology of the Val Verde Basin, mapping potential reservoir thicknesses using well log data

Fieldwork

- Field mapping and stratigraphic section measurement in the San Rafael Swell, UT (2014-present)
- Geological Consultant for Martian sedimentology, University Rover Competition, BYU team (2015-2016)
- Geological Consultant, Anthropology Field School, Eastern NV, Field XRF of obsidian source rock and artifacts (2013)
- Field Assistant, GPR survey to assist in archaeological studies in Nauvoo, IL (2012)
- Field Assistant, Seismic surveying of faults in the Black Rock Desert, UT (2012, 2014)

Fieldtrips/Shortcourses

- Bighorn Basin Structure and Stratigraphy, ExxonMobil, July 2014
- Guadalupe Mountains Young Professionals Fieldtrip, UT Permian Basin, June 2014
- Paradox Basin Salt Tectonics, ExxonMobil, March 2014
- Petroleum Economics, Greg Hebertson, Midstates Petroleum, Feb 2014
- Hamblin Global Geology Fieldtrips, BYU Department of Geological Sciences
 - Carbonate Platform Facies Architecture, Andros, Bahamas, April 2014; History of the Geological Sciences, Southern England, April 2013; Hawaiian Hotspot Volcanology and Petrology, Hawaii, April 2012

Teaching Assistant Experience

- Geological Communications (2014, 2015)
- Sedimentology and Stratigraphy (2015, 2016)
- Senior Field Camp (Spring 2014)
- Freshman Field Camp (Summer 2013, 2014)

Conference Abstracts

Valenza, J., Morris, T., 2016, Redbeds of the Upper Entrada Sandstone, Central Utah: Facies Analysis and Regional Implications for Interfingering Sabkha and Fluvial Terminal Splay Deposits: GSA Annual Meeting, Denver, CO.

Valenza, J., Morris, T., 2015, Redbeds of the Upper Entrada Sandstone, Central Utah: Facies Analysis and Implications for Apparent Hummocky Cross-stratification: BYU CPMS Spring Research Conference.

Valenza, J., Morris, T., 2014, Apparent Hummocky Cross-stratification of the Upper Entrada Sandstone: Evidence for HCS-dominated Tempestites Interbedded with very Shallow to Emergent Siliciclastic Environments: GSA Annual Meeting, Vancouver, BC.

Valenza, J., Harris, R., 2013, Suture Dynamics of the Banda Arc Collision Zone: Geochemical and Age Analysis of Ultramafic and Mafic Bodies in Timor, Indonesia: AGU Fall Meeting.

Valenza, J., Harris, R., 2013, Whole-rock geochemical analysis of ultramafic bodies of Timor and Timor-Leste: BYU CPMS Spring Research Conference.

Publications

Harris, R., Valenza, J., (In Prep), Suture Dynamics of the Banda Arc Collision Zone: Geochemical and Age Analysis of Ultramafic and Mafic Bodies in Timor, Indonesia

Awards, Grants, Assistantships

- Chevron Fellowship, Indiana University (2016-2017)
- BYU Department of Geological Sciences Teaching Assistantships (2014-2016)
- Dept. of Geological Sciences Harvey, Snow, Hale, and Graduate Tuition Scholarships (2014-2016)
- BYU Office of Research & Creative Activities (ORCA) Grant (2014)
- Best in Section, BYU CPMS Spring Research Conference, Timor Research (2013)
- BYU Scholarship Office, Half-tuition, undergraduate (2011-2014)
- Dept. of Geological Sciences J Keith Rigby Scholarship (2010-2011)
- BYU Scholarship Office, Full-tuition, undergraduate (2010-2011)

Volunteer Work

- Orem Institute Singers (2015-2016)
 - Planned and conducted youth show tour, May 2015, numerous community performances, head scriptwriter for Christmas show (2015)
- BYU Geology Club Vice President, (2014-2015)
 - Assisting president in planning and conducting club events
- BYU Folkdance Team (2011, 2013)
 - Community performances of traditional folk dances from around the world
- Missionary for the Church of Jesus Christ of Latter-day Saints (2007-2009)
 - Northern France and Belgium, fluency in French, service, proselyting, leadership and training positions among fellow missionaries

Affiliations/Memberships

- Geological Society of America (GSA), American Association of Petroleum Geologists (AAPG)

References

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Dr. Jani Radebaugh

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Dr. Sam Hudson

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Dr. Doug Edmonds

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