

## **CURRICULUM VITAE - Daniel F. Stockli**

Chevron (Gulf) Centennial Professor in Geosciences  
Department of Geological Sciences  
Jackson School of Geosciences  
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### **Educational History:**

- 1999 Ph.D. in Geological Sciences, Stanford University. Dissertation; "Timing and nature of Miocene extensional faulting in the northern Basin and Range Province and the structural and thermal transition to the central Sierra Nevada". Advisors: Dr. E. L. Miller and Dr. T. A. Dumitru.
- 1995 M.S. (Diplom) in Geology, Swiss Federal Institute of Technology (ETH), Zurich. Thesis: "Tectonics SW of the Tauern Window, Eastern Alps - Southern Continuation of the Brenner Fault Zone and its Interaction with other Fault Zones". Advisors: Dr. N. S. Mancktelow and Dr. D. Seward.
- 1993 B.S. (Vordiplom) in Geology, Swiss Federal Institute of Technology, Zurich.

### **Professional Experience:**

- 2016 – Temporary Graduate Faculty at Univ of Alabama
- 2014 – Chevron (Gulf) Centennial Endowed Professorship in Geology at UT Austin
- 2011 – Chair of UT JSG Solid Earth & Tectonic Processes Theme
- 2011 – Director of UT Geo- and Thermochronometry Laboratories
- 2011 – Adjunct Professor at University of Kansas
- 2011 – Professor at University of Texas at Austin
- 2007 Herbetta Visiting Professor University of Lausanne
- 2006 – 2011 Associate Professor at University of Kansas
- 2005 – Adjunct Professor at Dalhousie University, Halifax, Canada
- 2001 – 2011 Co-Director of KU IGL and Geochronology Laboratories
- 2001 – 2005 Assistant Professor at University of Kansas
- 1999 – 2001 Divisional Postdoctoral Scholar at California Institute of Technology
- 1995 – 1999 Teaching and Research Assistant at Stanford University
- 1994 – 1995 Teaching and Laboratory Assistant, ETH Zurich

### **Academic Honors:**

- 2018 Jackson School Outstanding Researcher Award
- 2017 GSA Fellow
- 2014 Chevron (Gulf) Centennial Professorship
- 2014/5 DGS Full Professor Top Performance Award
- 2011 KU Shining Light Research Award
- 2006 J. and M. Van Sant Geology Excellence Award
- 2002 Sigma Xi Membership
- 1999 Texaco Philanthropic prize postdoctoral fellowship California Institute of Technology
- 1996 University of California White Mountain Research Station Fellowship
- 1995 Stanford University Fellowship
- 1995 Outstanding master's thesis award ETHZ and Swiss Presidential Silver Medal

### **Professional Affiliations:**

American Mineralogical Society, Geological Society of America, American Geophysical Union, Swiss Geological Society, AAPG

**Languages:** English, German, French, Spanish (fluent); Italian, Greek, Arabic (elementary)

### **Research and Professional Activities**

#### **Grants, Awards, and Contracts:**

- 2018 *NSF Tectonics*: Collaborative research: Timing of slip along the Sierra Nevada frontal fault zone, California: A Thermochronologic Study. \$235,427. Stockli (PI)
- 2017 *NSF OCE*: Collaborative Proposal: Chicxulub impact effects and the recovery of life using scientific drilling investigations at ground zero. \$566,407 (UT Total), Gulick (PI), Stockli (co-PI)
- 2017 *NSF Tectonics*. Retrograde metamorphism in the Greek Cycladic Islands as a window into exhumation mechanisms of high-pressure terranes. \$334,776. Barnes (PI), Stockli (co-PI)
- 2017 *Norwegian INPART*: Arctic Geological History and Future Exploration: A Norwegian-Russian-North American (NO-R-AM) collaboration in Arctic research and education ~\$606,600 or NK 4,841,000 (total for 4 institutions)
- 2017 *Apache Egypt*. Chronostratigraphy and Thermal Evolution Reconstruction of the Qarun area, Egypt. \$72,500.
- 2017 *BHP Billiton*. Provenance and Thermal History of Barbados. \$77,540.
- 2017 *Chevron*. Provenance and Thermal History Reconstruction in the S Atlantic. \$104,000.
- 2016 *Apache Egypt*. Chronostratigraphy and Thermal Evolution Reconstruction of the Western Desert, Egypt. \$268,150.
- 2015 *NSF IF MRI*. Acquisition of a Multicollector Inductively Coupled Plasma Mass Spectrometer for Earth Science Research at the University of Texas at Austin. \$452,544.
- 2015 *NSF Tectonics*. Using the World's Fastest Slipping Normal Fault to Understand the Mechanics of Low-angle Normal Faults. \$290,077.
- 2015 *Statoil*. Isotopic Provenance Constraints on Source to Sink System. \$704,289.
- 2015 *ExxonMobile*. Thermal Evolution of the Iranian Zagros – Lorestan and Fars Provinces. \$119,658.
- 2014 *NSF Tectonics*. Exhumation History of the Indian Lesser Himalaya: Discriminating Tectonic Models with Implications for the Neogene Isotopic Composition of Seawater. \$361,772.
- 2014 *Chevron*. Detrital provenance and thermal evolution of the Kurdistan (Iraq) foreland. \$19,000.
- 2014 *Chevron*. Thermal evolution of deep-water Paleogene Wilcox in the GOM. \$20,000.
- 2014 *Apache Egypt*. Thermal and maturation evolution of Jurassic and Cretaceous strata in the Western Desert of Egypt. \$155,000.
- 2014 *RWE DEA*. Thermochronometric constraints on normal faulting in the Nile Delta. \$46,000.
- 2014 *Statoil*. Detrital geo- and thermochronometric provenance studies (4 years). \$561,333.
- 2013 *NSF Tectonics*. Collaborative Research: Title: Collaborative Research: Paleogeographic record of contractional to extensional tectonics in the Sevier hinterland, Nevada. \$298,000.
- 2013 *Apache Egypt*. Thermochronometric Investigation of the Thermal History and Maturation of Paleozoic strata of the Western Desert II and III, Egypt. \$91,712.
- 2013 Various UTchron Laboratory Contracts 2012/2013 (<\$30k academia/industry) totaling \$391,737.
- 2013 *UT JSG Seed Grant*. Detrital geo- and thermochronometry of the Lower Miocene in the GOM, \$9,000.
- 2012 *ExxonMobil*. Tectonic, temporal, and thermal evolution of hyper-extended continental margins, with the focus on the Alpine-North Atlantic system and application to analog extensional systems in the Central, South and Equatorial Atlantic. \$200,000.
- 2012 *ExxonMobil*. Depositional and Deformational History of the Zagros Fold-Thrust Belt and Foreland Basin, Kirkuk Embayment, Iraqi Kurdistan. \$845,409.
- 2012 *DOE Geothermal Technologies Program*. Novel Coupled Thermochronometric and Geochemical Investigation of Blind Geothermal Resources in Fault- Controlled Dilational Corners. \$845,409.

- 2010 *Ecopetrol-ICP Contract*: Low-temperature thermochronological and neotectonic constraints from the Middle Magdalena Valley, Llanos basin, and Eastern Cordillera of Colombia (Phase 3). \$616,635.
- 2010 *Apache Egypt*. Thermochronometric Investigation of the Thermal History and Maturation of Paleozoic strata of the Western Desert, Egypt. \$149,972.
- 2009 *NSF Tectonics*. Collaborative Research: Timing, extent, and spatial progression of Neogene displacement transfer, southern Walker Lane, western Great Basin. \$193,313.
- 2009 *DOE Geothermal Technologies Program*. Detachment faulting and Geothermal Resources – An Innovative Integrated Geological and Geophysical Investigation of Pearl Hot Spring, Nevada. \$4,242,519 (including \$1,943,282 in external industry cost-share).
- 2009 *DOD Geothermal Program Office*. Geological investigations, eastern Lava Mountains, Almond Mountain, and southern Slate Range, NAWS China Lake, CA. \$780,000 (phase I and II). . (co-PI with J.D. Walker as lead PI)
- 2009 *Remora Oil Contract*. Detrital (U-Th)/He thermochronometry of the Llanos foreland basin, Colombia. \$98,000.
- 2009 *NSF Instrumentation and Facilities*. Upgrade of the Laser Heating System for the (U-Th)/He laboratory at the University of Kansas. \$76,500.
- 2008 *Ecopetrol-ICP Contract*: Low-temperature thermochronological and neotectonic constraints from the Middle Magdalena Valley, Llanos basin, and Eastern Cordillera of Colombia (Phase 2). \$817,000.
- 2008 *Ecopetrol Contract*: Low-temperature thermochronological and neotectonic constraints from the Middle Magdalena Valley, Llanos basin, and Eastern Cordillera of Colombia (Phase 1). \$110,000.
- 2008 *Hocol S.A. Contract*: Servicio en analisis de thermochronologi de baja temperature (U-Th/He en la Cordillera Oriental (Low-Temperature (U-Th)/He Thermochronometric Analyses in Eastern Cordillera, Colombia). \$50,000.
- 2008 *National Geographic Society*. Dating Zircon Survivors in Multi-cycle Arc Volcanoes: a new Tool for Predicting Long-term Magmatic Periodicity? Co-PI with Axel Schmitt (UCLA), \$17,400.
- 2008 *NSF Tectonics*. Collaborative Research: Development of extensional systems in regions of hot, thick crust: Insight from Tibet. \$154,019 (co-PI with M. Taylor)
- 2007 *NSF Petrology and Geochemistry*. Magnetite (U-Th-Sm)/He Geochronology - A Novel Technique for Dating Continental and Oceanic Basalts. \$200,036.
- 2007 *Navy Geothermal Program*. Thermochronometric Constraints on the Connection between Advection of Heat through Faulting and Nature of Geothermal Resource for the Hawthorne/Wassuk Range area, Nevada, \$134,000.
- 2007 *NSF Tectonics*. Timing and Kinematics of Cenozoic of E-W Extension in Central Tibet Transition in the Strain Field of the Tibetan Plateau. Supplement \$21,042.
- 2006 *Apache Egypt Oil Contract*. Thermochronometric Investigation of the SOKAR-1X Unconformity. \$69,523.
- 2006 *NSF EarthScope*. 2006 GeoFrame Walker Lane initiative workshop proposal. \$29, 814.
- 2005 *NSF Petrology and Geochemistry*. Development and calibration of rutile (U-Th)/He geo-and thermochronometry. \$ 174,122.
- 2005 *NSF Instrumentation and Facilities*. Technician Support: (U-Th)/He laboratory at the University of Kansas [Phase I]. \$203,374.
- 2005 *KU General Research Fund Grant*. Timing of ancient earthquakes by radiometric dating of frictional seismic melts – Development of zircon (U-Th)/He dating of pseudotachylites. \$7,588.
- 2004 *NSF Tectonics*. Collaborative Research: Collaborative Research: Exhumation of the Colorado Plateau--spatial and temporal distribution and implications for landscape evolution. \$118,818.
- 2004 *Geo-83 Geothermal Consortium*. Late Neogene structural and volcanic evolution of the northern Fish Lake Valley pull-apart basin, Esmeralda County, Nevada. \$21,923.

- 2003 *NSF MARGINS*. Collaborative Research: Integrated thermochronological & structural investigation of the Saudi Arabian Red Sea rift margin: Implications for the rupturing of continental lithosphere. \$189,287.
- 2003 *NSF Tectonics*. Timing and Kinematics of Cenozoic of E-W Extension in central Tibet Important Transition in the Strain Field of the Tibetan Plateau. \$229,909.
- 2003 *Colorado College faculty grant*. (U-Th)/He thermochronometric constraints on the Neogene exhumation of the Front Ranges, Colorado. E. Leonard (Colorado College). \$2,000 subcontract to Stockli.
- 2003 *ACS PRF TYPE B*. Thermochronological Evolution and Timing of Extension in the Hinterland of the Sevier Orogenic Belt, Northeastern Nevada. A. McGrew (University of Dayton). \$6,000 subcontract to Stockli.
- 2002 *KU NFGRF*. Timing and Kinematics of Cenozoic E-W Extension in central Tibet- Transition in the Strain Field of the Tibetan Plateau. Award Amount: \$10,000.
- 2002 *NSF Tectonics*. Collaborative Research: Late Cenozoic to Recent Fault Slip Distribution in the Central Walker Lane Belt, Western Nevada. Award Amount: \$162,961.
- 2001 *NSF Tectonics*. Collaborative Research: Late Cenozoic Detachment Faulting in the Western Salton Trough: Strain Partitioning in an Oblique Active-Margin Rift. B. Dorsey (PI, University of Oregon) and others (3). \$6,000 subcontract to Stockli.
- 2000 *NSF Tectonics*. Strain Partitioning During the Early Stages of Continental Collision: Uplift of the Alborz Mountains, Northern Iran. Grant to G. Axen (UCLA). \$15,000 subcontract to Stockli/Farley (Caltech).
- 2000 *NSF Tectonics*. Inverse and Forward Modeling of the Utah System of Colorado Plateau Basement-Cored Uplifts. G. Davis (Univ of Arizona). \$15,000 subcontract to Stockli/Farley (Caltech).
- 1999 *NSF Instrumentation and Facilities*, Setup of (U-Th)/He laboratory at Stanford University. M. McWilliams (Stanford University). Stockli as primary co-author.
- 1997 *NSF Tectonics*. Structural and thermal evolution of the Northern Basin and Range - Sierra Nevada transition zone. E. L. Miller (Stanford University). Stockli as primary co-author.

### **Professional Service:**

#### *Professional Activities:*

- 2019 GSA Student Research Grant Review Committee, Member
- 2018 GSA International Committee, Member
- 2018- International Thermochronology Standing Committee, Member
- 2013-15 GSA Structure and Tectonics Career Award (chair and member)
- 2013-15 Editorial Board Lithosphere
- 2008-10 NSF Margins initiative steering committee member
- 2008 Scientific Program Committee member 11<sup>th</sup> Int. conference on thermochronometry
- 2007 Convener for GeoEarthScope-MARGINS interface workshop, Monterey, California
- 2006 Advisory committee to ISES (Integrated Solid Earth Sciences) imitative
- 2006 Chair of EarthScope GeoSwath Walker Lane EarthScope initiative
- 2006 Organization of EarthScope GeoSwath Walker Lane workshop, Reno
- 2005 NSF workshop participant: Paleoelevation and paleoaltimetry, Lehigh University
- 2005 GAC-MAC Short Course Speaker, Halifax, Canada
- 2005 GSA Penrose conference co-organizer with J. Lee (Central Washington University), C. Henry (Univ. Nevada Reno), and T. Dixon (Miami University). Kinematics and geodynamics of intra-plate dextral shear in eastern California and western Nevada. Mammoth Lakes, California,
- 2003 Integrated Solid Earth Sciences workshop (invited forum leader - geochronology)
- 2003 NSF-NAGT workshop participant: Teaching Petrology in the 21st Century
- 2003 American Association of Petroleum Geologists Meeting, Session Organizer

2002 Integrated Solid Earth Sciences Cyberinfrastructure workshop at the University of Kansas, Spearheading database development for Geochronology and Thermochemistry.

*Reviewer of Manuscripts for:*

American Journal of Science, Chemical Geology, Earth and Planetary Sciences Letters, Geological Society of America Bulletin, Geological Society of America Special Papers, Geology, Geophysical Journal International, Geochimica et Cosmochimica Acta, G<sup>3</sup>, Reviews in Mineralogy and Geochemistry, Tectonics, Geosphere.

*Reviewer of Proposals to:*

National Science Foundation (Tectonics, EarthScope, Geophysics, Geology and Paleontology, Petrology and Geochemistry, Research in Undergraduate Institutions Activity (RUI), Instrumentation and Facilities, Continental Dynamics Program), American Chemical Society - Petroleum Research Fund, NERC (UK), German National Science Foundation, Austrian National Science Foundation, Israeli National Science Foundation.

*Field Trip Leader:*

2018 Expedition Co-leader Verkhoyansk Fold-and-Thrust Belt Traverse (3 weeks)  
2018 Co-leader UT Field Trip Romania (1 week)  
2015 Expedition Co-Leader to Zabargad Island, Red Sea (1 week)  
2015 Co-leader Advance Structure Field trip to Big Bend  
2014 Co-leader of UT Tectonics field trip to NW Ireland (1 week)  
2014 UT Geology Honors Program field trip to Colorado Plateau (1 week)  
2013 Industry field trip to the Gulf of Suez (1 week)  
2013 UT Tectonics field trip to Attica and Cycladic Islands, Greece (2 weeks)  
2012 UT Tectonics field trip to Lower Colorado River Extensional Complex (1 weeks)  
2011 UT field trip to Sevier F&T belt and foreland basin (co-leader with Dr. B. Horton) (2 weeks)  
2010 Swiss Alps Study Tour (co-leader with Dr. P. Selden) (2 weeks)  
2001- KU Advanced field camp (incl. weekend field trip) (3 weeks)  
2009 KU Geology field trip to southern Utah (co-leader with Dr. D. Kamola)  
2008 KU Petrology field trip to California (Sierra Nevada to Franciscan)  
2007 KU Mineralogy field trip to Kansas kimberlites  
2006 KU Geology field trip to southern Utah (co-leader with Dr. D. Kamola)  
2006 KU Geology field trip to eastern California (co-leader with Dr. A. Walton)  
2005 Field Trip– Geological Society of America Penrose Conference - Kinematics and Geodynamics of Intraplate Dextral Shear in Eastern California and Western Nevada (co-leader with Dr. J. Lee)  
2004 KU Geology field trip to central Utah (co-leader with Dr. D. Kamola)  
2004 KU Microstructure field trip to Whipple Mountains, CA  
2003 KU Geology field trip to Lake Superior Province (co-leader with Dr. W. R. Van Schmus)  
2003 KU Petrology field trip to SE Missouri  
2002 KU Geology field trip to southern Utah (co-leader with Dr. D. Kamola)  
2001 KU Petrology field trip to SE Missouri  
2001 Caltech postdoctoral scholars field trip to the Whipple Mountains, CA  
2000 Caltech postdoctoral scholars field trip to Owens Valley, CA  
1999 Stanford Alpine Project field trip to New Zealand  
1998 University of Muenster field trip to Franciscan Complex, CA  
1997 Stanford Alpine Project field trip to South Africa

**University Service:**

*University and JSG Service:*

2019 University of Texas Cluster & Interdisciplinary Hiring Initiative Review Committee  
 2018 University of Texas MRI Review Committee, Member  
 2014-2017 Member Jackson School of Geosciences Strategic Planning Committee  
 2108 QCL BEG Search Committee (Petrographer)  
 2016 QCL BEG Search Committee (QCL Research Scientist)  
 2011-2017 Chair of Jackson School Solid Earth and Tectonic Processes Research Theme  
 2008-2011 Chair of Provost's Tracking of Learning Initiative (College of Liberal Arts and Sciences)  
 2006-2010 Member of Academic Misconduct Panel KU College of Liberal Arts  
 2006-2008 Instructor of Honors Program Freshman Tutorials  
 2005-2007 KU Athletics Dept. Scholarship Appeals Board  
 2001-2010 Guest lecturer in Mineral Symmetry for School of Fine Arts

*Departmental Service:*

2017 Member Endowed Professor Structure & Tectonics Search Committee  
 2017 Member of DGS Post-Tenure Evaluation Committee  
 2017 Member ad-hoc Tech Support and IDC Return Committee  
 2016 Member of External and Internal DGS Chair Search Committee  
 2015-16 Member Dept. of Geological Sciences Strategic Planning Committee  
 2014-15 Chair Annual Faculty Performance Evaluation Committee  
 2013 Chair Promotion and Tenure Committee (Ketcham)  
 2011- Organization of Prospective Student Weekend (Solid Earth and Tectonic Processes)  
 2011-2013 Jackson School Endowment Committee (Alternate)  
 2011- Structure and Tectonics Discipline Curriculum Committee  
 2011- Geochemistry and Geo- and Thermochronology Discipline Curriculum Committee  
 2011-2104 Member of UT Jackson School Admission Committee  
 2010-2011 Member of KU Internal Dept Review  
 2009-2011 Chairman, KU Geology Graduate Admission  
 2006-2007 Chairman, KU Search Committee – Geochronology  
 2006-2008 KU Dept. of Geology Honors Program Coordinator  
 2006-2009 KU Dept. of Geology Webmaster  
 2004-2010 KU Dept. of Geology Graduate Admissions Committee (Chair and Member)  
 2004-2006 Organizer of KU Dept. Colloquium Series  
 2003-2004 Member, KU Search Committee - Neotectonics  
 2003-2004 Chairman, KU Search Committee – Thermochronology Research Associate  
 2003-2010 Member, KU Associates Board Student-Alumni Relations Faculty Subcommittee  
 2001-2002 Member, KU Search Committee - Geophysics  
 2002-2004 Member, KU Graduate Studies Committee  
 2002-2009 Organizer and Convener of G-Hawk Symposium Student Symposium  
 2002-2010 Member, KU Field Camp Committee  
 2001-2003 Member, KU Graduate Studies Committee  
 2001-2003 Member, Geology Web Site Committee

**Publications and Presentations**

*Refereed Publications: (\*indicates graduate advisee, \*\*postdoctoral advisee)*

**H-factor: 52 (39 since 2014); Total Citations: 7898 (4840 since 2014) based on Google Scholar**

Odlum, M.L.\* and Stockli, D.F., 2019. Thermotectonic evolution of the North Pyrenean Agly Massif during Early Cretaceous hyperextension using multi-mineral U-Pb thermochronometry. *Tectonics*

- Mackaman-Lofland, C., Horton, B.K., Fuentes, F., Constenius, K.N. and Stockli, D.F., 2019. Mesozoic to Cenozoic retroarc basin evolution during changes in tectonic regime, southern Central Andes (31–33° S): Insights from zircon U-Pb geochronology. *Journal of South American Earth Sciences*, 89, pp.299-318.
- Wittmann, A., van Soest, M., Hodges, K.V., Darling, J.R., Morgan, J.V., Gulick, S.P.S., Stockli, D., Rasmussen, C., Kring, D.A. and Schmieder, M., 2018. Petrology and Radioisotopic Ages of Allanite in the Peak Ring of the Chicxulub Impact Crater. LPI Contributions, 2067.
- Wafforn, S.\*, Seman, S.\*, Kyle, J.R., Stockli, D., Leys, C., Sonbait, D. and Cloos, M., 2018. Andradite garnet U-Pb geochronology of the Big Gossan skarn, Ertsberg-Grasberg Mining District, Indonesia. *Economic Geology*, 113(3), pp.769-778.
- Stockli, D.F. and Bosworth, W., 2018. Timing of extensional faulting along the magma-poor central and northern Red Sea rift margin – Transition from regional extension to necking along a hyperextended rifted margin. Red Sea, Springer, pp. 81-111.
- Smye, A.J., Marsh, J.H., Vermeesch, P., Garber, J.M. and Stockli, D.F., 2018. Applications and limitations of U-Pb thermochronology to middle and lower crustal thermal histories. *Chemical Geology*.
- Pujols, E.J.\*, Leva López, J., Stockli, D.F., Rossi, V.M. and Steel, R.J., 2018. New insights into the stratigraphic and structural evolution of the middle Jurassic S. Neuquén Basin from Detrital Zircon (U-Th)/(He-Pb) and Apatite (U-Th)/He ages. *Basin Research*, 30(6), pp.1280-1297.
- Kounov, A., Gerdjikov, I., Vangelov, D., Balkanska, E., Lazarova, A., Georgiev, S., Blunt, E. and Stockli, D., 2018. First thermochronological constraints on the Cenozoic extension along the Balkan fold-thrust belt (Central Stara Planina Mountains, Bulgaria). *International Journal of Earth Sciences*, 107(4), pp.1515-1538.
- Seymour, N.M., Strickland, E.D., Singleton, J.S., Stockli, D.F. and Wong, M.S., 2018. Laramide subduction and metamorphism of the Orocopia Schist, northern Plomosa Mountains, west-central Arizona: Insights from zircon U-Pb geochronology. *Geology*, 46(10), pp.847-850.
- Sehrt, M., Glasmacher, U.A., Stockli, D.F., Jabour, H. and Kluth, O., 2018. The southern Moroccan passive continental margin: An example of differentiated long-term landscape evolution in Gondwana. *Gondwana Research*, 53, pp.129-144.
- Prior, M.G.\*, Singleton, J.S. and Stockli, D.F., 2018. Late-stage slip history of the Buckskin Rawhide detachment fault and temporal evolution of the Lincoln Ranch supradetachment basin: New constraints from the middle Miocene Sandtrap Conglomerate. *Geological Society of America Bulletin*.
- Powell, J., Schneider, D.A., Desrochers, A., Flowers, R.M., Metcalf, J., Gaidies, F. and Stockli, D.F., 2018. Low-temperature thermochronology of Anticosti Island: A case study on the application of conodont (U-Th)/He thermochronology to carbonate basin analysis. *Marine and Petroleum Geology*.
- Nie, J., Ruetenik, G., Gallagher, Hoke, G., Garzzone, G., Wang, W., Stockli, D.F., Hu, J., Wang, Z., Wang, Y., Stevens, T., Danišik, M., and Liu, S., Rapid incision of the Mekong River in the middle Miocene linked to monsoonal precipitation, *Nature Geoscience*
- McKenzie, N.R.\*\*\*, Smye, A.J.\*\*\*, Hegde, V.S. and Stockli, D.F., 2018. Continental growth histories revealed by detrital zircon trace elements: A case study from India. *Geology*, 46(3), pp.275-278.
- Lima, R.D., Prior, M.G. \*, Stockli, D.F. and Hayman, N.W., 2018. Protracted heating of the orogenic crust in Death Valley, California, USA. *Geology*, 46(4), pp.315-318.
- Koshnaw, R. \*, Stockli, D.F., Schlunegger, F., 2018, Timing of the Arabia-Eurasia continental collision - Evidence from detrital zircon U-Pb geochronology of the Red Bed Series strata of the NW Zagros hinterland, Kurdistan region of Iraq. *Geology*, 47(1), pp.47-50.
- Barber, D.E., Stockli, D.F., Horton, B.K. and Koshnaw, R.I., 2018. Cenozoic Exhumation and Foreland Basin Evolution of the Zagros Orogen During the Arabia-Eurasia Collision, Western Iran. *Tectonics*.
- Hessler, A., Covault, J., Stockli, D.F., and Fildani, A., 2018, Late Cenozoic cooling favored glacial over tectonic controls on sediment supply to the western Gulf of Mexico. *Geology*, 46(11), pp.995-998.

- Guo, B., Liu, S., Peng, T., Ma, Z., Feng, Z., Li, M., Li, X., Li, J., Song, Stockli, D.F., C., Zhao, Z. and Pan, B., 2018. Late Pliocene establishment of exorheic drainage in the northeastern Tibetan Plateau as evidenced by the Wuquan Formation in the Lanzhou Basin. *Geomorphology*, 303, pp.271-283.
- Gevedon, M., Seman, S.\*, Barnes, J.D., Lackey, J.S. and Stockli, D.F., 2018. Unraveling histories of hydrothermal systems via U–Pb laser ablation dating of skarn garnet. *Earth and Planetary Science Letters*, 498, pp.237-246.
- Gavillot, Y., Meigs, A.J., Sousa, F.J., Stockli, D., Yule, D. and Malik, M., 2018. Late Cenozoic foreland-to-hinterland low temperature exhumation history of the Kashmir Himalaya. *Tectonics*.
- Fildani, A., Hessler, A.M., Mason, C.C., McKay, M.P. and Stockli, D.F., 2018. Late Pleistocene glacial transitions in North America altered major river drainages, as revealed by deep-sea sediment. *Scientific reports*, 8(1), p.13839.
- Ershova, V., Anfinson, O.\*\*, Prokopyev, A., Khudoley, A., Stockli, D., Faleide, J.I., Gaina, C. and Malyshev, N., 2018. Detrital zircon (U-Th)/He ages from Paleozoic strata of the Severnaya Zemlya Archipelago: Deciphering multiple episodes of Paleozoic tectonic evolution within the Russian High Arctic. *Journal of Geodynamics*.
- Domènech, M., Stockli, D.F. and Teixell, A., 2018. Detrital zircon U–Pb provenance and palaeogeography of Triassic rift basins in the Marrakech High Atlas. *Terra Nova*, 30(4), pp.310-318.
- Cooperdock, E.H.\*, Raia, N.H., Barnes, J.D., Stockli, D.F. and Schwarzenbach, E.M., 2018. Tectonic origin of serpentinites on Syros, Greece: Geochemical signatures of abyssal origin preserved in a HP/LT subduction complex. *Lithos*, 296, pp.352-364.
- Cooperdock, E.H.\* and Stockli, D.F., 2018. Dating exhumed peridotite with spinel (U–Th)/He chronometry. *Earth and Planetary Science Letters*, 489, pp.219-227.
- Colleps, C.L.\*, McKenzie, N.R., Stockli, D.F., Hughes, N.C., Singh, B.P., Webb, A.A.G., Myrow, P.M., Planavsky, N.J. and Horton, B.K., 2018. Zircon (U-Th)/He Thermochronometric Constraints on Himalayan Thrust Belt Exhumation, Bedrock Weathering, and Cenozoic Seawater Chemistry. *Geochemistry, Geophysics, Geosystems*, 19(1), pp.257-271.
- Calle, A.Z., Horton, B.K., Limachi, R., Stockli, D.F., Uzeda-Orellana, G.V., Anderson, R.B. and Long, S.P., 2018. Ch. 18: Cenozoic Provenance and Depositional Record of the Sub-Andean Foreland Basin during Growth of the Central Andean Fold-Thrust Belt, Southern Bolivia.
- Bidgoli, T.S., Tyrrell, J.P., Möller, A., Walker, J.D. and Stockli, D.F., 2018. Conodont thermochronology of exhumed footwalls of low-angle normal faults: A pilot study in the Mormon Mountains, Tule Springs Hills, and Beaver Dam Mountains, southeastern Nevada and southwestern Utah. *Chemical Geology*, 495, pp.1-17
- Anderson, R.B., Long, S.P., Horton, B.K., Thomson, S.N., Calle, A.Z. and Stockli, D.F., 2018. Orogenic wedge evolution of the central Andes, Bolivia (21° S): Implications for Cordilleran cyclicity. *Tectonics*.
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*Invited Lectures and Short Courses:*

- 2018 RAUMG Meeting, Puerto Vallarta
- 2018 NOR-R-AM Short Course, UNIS Svalbard
- 2018 IOPD 364 Chicxulub Meeting, Merida, Yucatan
- 2018 University of Alabama, Tuscaloosa
- 2018 Tectonic Analysis Sponsor Meeting in Houston
- 2018 BEG-QCL Sponsors Meeting (2 presentations)
- 2018 Tectonic Analysis Sponsor Meeting in Houston
- 2017 BEG-QCL Sponsors Meeting (2 presentations)
- 2017 Oslo University, Norway
- 2017 Nancy University, France
- 2016 Stanford University Dept. Seminar and Student Brown Bag
- 2016 University of Texas at San Antonio, San Antonio
- 2016 BEG-QCL Sponsors Meeting (2 presentations)
- 2016 Tectonic Analysis Sponsor Meeting in Houston

- 2016 Invited Lectures on GOM Provenance at Exxon, Chevron, and Statoil  
2015 Texas A&M University, College Station,  
2014 University of Houston, Houston, October 24, 2014  
2014 International Thermochronology Conference, Panelist, September 14, 2014  
2014 University of Texas at Dallas, Richardson, April 24, 2014  
2014 UNAM Short Course, Juriquilla, Mexico, March 3-4, 2014  
2014 UNAM Queretaro Colloquium, Juriquilla, Mexico, March 5, 2014  
2014 iPGST Seminar UT, Austin, February 25, 2014  
2013 University of Lausanne Colloquium, Lausanne Switzerland, Oct. 21, 2013.  
2013 Statoil RDI seminar, Austin, TX, Oct. 10, 2013.  
2013 Chevron “Sand Bar” seminar, Houston, TX, Oct. 8, 2013.  
2013 Texas A&M Geology Colloquium and Brown Bag, College Station, TX, Sept. 27.  
2013 Austin Geological Society Seminar, Austin, TX, Oct. 7, 2013.  
2013 2-Day Short Course on Thermochronometry at China University of Petroleum in Beijing, China, Sept. 19-20, 2013.  
2013 ConocoPhillips Basins and Technology Groups seminar, Houston, TX, May 30, 2013.  
2013 IEEE Expatriate Exploration Colloquium, New Ma’adi, Cairo, Egypt, June 24, 2013.  
2013 Presentations (2) at DoE Geothermal Peer Review Meeting, Denver, CO, April 22-24, 2013.  
2013 Chesapeake seminar “Detrital Geo- and Thermochronometry”, Edmond, OK, April 12, 2013.  
2013 University of Oklahoma Geosciences Colloquium, April 11, 2013.  
2012 iPGST Seminar  
2012 Pyrenees TSG Meeting (keynote), St. Martin d’Arose, France, Oct. 4, 2012.  
2012 Goldschmidt Conference (invited), Montreal, Canada, June 26, 2012.  
2013 Presentations (2) at DoE Geothermal Peer Review Meeting, Denver, CO, May 8-9, 2012.  
2012 Thermochronometry and Geothermal Resources, SMU, February, 2012.  
2011 Modern Approaches to Detrital Thermochronometry, UTIG Seminar, November 2011  
2011 New Trends and Applications of High-Resolution Detrital Thermochronometry, ExxonMobil, April, 2012.  
2010 New Avenues in Tectonic Thermochronometry, Univ. of Southern California, March 1, 2010.  
2009 (U-Th)/He Thermochronometry and its application to extensional tectonics. University of Lausanne, June 16, 2009.  
2008 New Advances in low- to moderate temperature thermochronometry, University of Iowa, Dec. 5, 2008.  
2008 Thermochronology Short Course, Ecoeptrol-ICP, Bucaramanga, May 21 and August 23-25, 2008  
2008 New Perspectives and Trends in Thermochronology and Hydrocarbon Exploration, Society of Colombian Petroleum Geologists and the Industrial University of Santander, Bucaramanga, August 21, 2008.  
2008 Thermochronology Short Course, University of Puerto Rico, Mayaguez, February 27-28, 2008  
2007 New Departures in Low-Temperature Thermochronology, Geological Society of Austria and University of Vienna, Vienna, Austria, December 10, 2007.  
2007 (U-Th)/He Dating – Beyond Apatite, Geneva University, Geneva, Switzerland, December 4, 2007.  
2007 Tertiary Collisional Tectonics in Iran (Alborz and Zagros) – A Thermchronometric Perspective, ETHZ Zurich Geology, Zurich, Switzerland, November 28, 2007.  
2007 (U-Th)/He Dating of Silicates and Oxides, ETHZ Zurich Isotope Geochemistry, Zurich, Switzerland, November XX, 2007.  
2007 Tertiary Transition from Intra-Arc Extension to Continent-Continent Collision in Iran. Potsdam University, Potsdam, Germany, November 26, 2007.  
2007 (U-Th)/He Dating – Beyond Apatite, Potsdam University, Potsdam, Germany, November 26, 2007.

- 2007 (U-Th)/He Thermochronology. University of Lausanne and Swiss Ph.D. course program, Lausanne, Switzerland, November 13-15, 2007. Three-Day Short Course
- 2007 Heidelberg University, Heidelberg, Germany, November 5, 2007.
- 2007 Low-Angle Normal Faults – A Thermochronological Perspective. Keynote address, Penrose conference, Naxos, Greece, October 10, 2007.
- 2007 Tertiary Transition from Intra-Arc Extension to Continent-Continent Collision in Iran. University of Missouri, Columbia, March 2, 2007

#### **Advisors:**

M.S. advisors: N. Mancktelow, D. Seward (ETH-Zurich)  
 Ph.D. advisors; E. Miller, T. Dumitru (Stanford University)  
 Post-doctoral mentor: K. Farley (Caltech)

#### **Graduate Students and Post-Doctoral Associates Supervised**

- Juan Pablo Centeno - M.S. (2004, KU). Thesis: “Exhumation of the Torngat Mountains, northern Labrador, Canada”.
- David Bradley - M.S. (2005, KU). Thesis: “Kinematics and slip rates of the Coaldale Fault, Nevada”.
- Christopher Tincher - M.S. (2005, KU). Thesis: “Cenozoic Volcanism and Tectonics in the Queen Valley Area, western Nevada”.
- Terrence Blackburn - M.S. (2006, KU). Thesis: “(U-Th)/He Dating of Xenoliths from Kimberlites and basaltic volcanic fields”.
- John Lee - M.S. (2007, KU). Thesis: “Thermochronometric constraints on the incision history of the Grand Canyon from borehole and surface samples”.
- Melissa Wolfe - M.S. (2009, KU). Thesis: “He Diffusion in Rutile and Calibration of Rutile (U-Th)/He Thermochronology on the KTB Ultra-Deep Borehole”.
- Markella Hoffman - M.S. (2009, KU). Thesis: “Incision and exhumation history of the Colorado Plateau in the Canyonlands to Book Cliffs Region, Utah”.
- Travis Glauser - M.S. (2009, KU). Thesis: “Thermochronometric investigation of multiple unconformities and post-depositional thermal history of a fault block in the northern Western Desert, Egypt”.
- Evan Bargnesi – M.S. (2011, KU). Thesis: “Thermochronometric constraints on detrital provenance and source thermal evolution from a supra-detachment basin in Paros, Greece.”
- Edgardo Pujols – M.S. (2011, KU). Thesis: “Structural evolution and timing of extensional faulting in the central Gulf of Suez, Egypt.”
- Kyle Gorynski – M.S. (2011, KU). Thesis: “Thermochronometric Constraints on the Longevity of a Geothermal System in an Extensional Tectonic Setting”.
- Sarah Evans – M.S. (2011, KU). Thesis: “Tectonic evolution of a Tethyan rift marine and ocean-continent transition in the Eastern Alps – An integrated magnetite and zircon (U-Th)/He thermochronometric approach”.
- Kurt Sundell – M.S. (2011, KU). Thesis: “Thermochronology of the Lunggar active metamorphic core complex, Tibet”.
- Jordan Leigh Taylor – M.S. (2012, KU). Thesis: “Magnetite (U-Th-[Sm])/He geochronology of Colombia River Basalts”.
- Joseph Miller – M.S. (2012, KU). Thesis: “Detrital (U-Th)/He and U-Pb dating of the northern Alpine Flysch and Molasse, central Switzerland”.
- Caleb Rhatigan, – M.S. (2013, UT). Thesis: “Magnetite (U-Th-[Sm])/He geochronology of Colombia River Basalts”.
- Eugene Szemanski – Ph.D. (2013, KU). Thesis: “Structural and sedimentological evolution of the Wadi Al-Hamd half-graben, Medina, Kingdom of Saudi Arabia”.
- Joshua Burrus – M.S (2013, UT). Thesis: "Integrated footwall and hanging wall tectonics and stratigraphic evolution of the Weepah Metamorphic Core Complex, Nevada."

- Chris Hager – Ph.D. (2014, KU). Thesis: “Structural Geology and Neotectonics of the Xianza Rift, Central Tibet”.
- Yomayra Roman – M.S. (2014, UPRM). Thesis: “Thermochronometric insights into the tectonic and thermal evolution of Puerto Rico” (co-advised with A. Covise at UPRM)
- Tim Shin – M.S. (2014, UT). Thesis: "Contractional and extensional evolution of the Aegean tectono-metamorphic complex in Andros and Tinos islands, Greece."
- Tandis Bidgoli – Ph.D. (2014, KU). Thesis: “Temporal and kinematic reconstruction of middle Miocene extension and transition to Mio-Pliocene transtension in the Las Vegas area.” (co-advised with J.D. Walker at KU).
- Nicole Hart – M.S. (2014, UT). Thesis: "Coupled bedrock and detrital thermochronometry of a hyper-extended continental margin, Mauleon, Pyrenees."
- Alison MacNamee – M.S. (2014, UT). Thesis: "Coupled Thermochronometric and Geochemical Investigation of Blind Geothermal Resources in Fault-Controlled Dilational Corners, Dixie Valley, Nevada."
- Micheal Cloos – M.S. (2014, UT). Thesis: “Sedimentary and provenance evolution of the Pliocene Pleistocene Colorado River Delta, California” (co-advised with R. Steel)
- Nikki Seymour – M.S. (2015, UT). Thesis: “Lower-crustal syn-rift exhumation at a hyper-extended continental margin – a case study in NE Corsica, France”
- Daniel Arnost – M.S. (2015, UT). Thesis: "Impact of meteoric fluid flow on the long-term thermal evolution - insights from Alpine tunnels studies."
- Cody Colleps – M.S. (2016, UT). Thesis: “Integrated structural and stratigraphic study of the frontal Himalayas in NW India”
- Kelly Thomson – M.S. (2016, UT). Thesis: “Detrital U-Pb-He provenance investigation of the Ainsa Basin, Southern Pyrenees”
- Mike Prior – Ph.D. (2016, UT). Thesis: "Tectonic and thermal evolution of the Bullfrog Metamorphic Core Complex, Nevada."
- Spencer Seman – Ph.D. (2016, UT). Thesis: "Novel geo-and thermochronometric and petrologic insights into the evolution of HP rocks in the central Aegean, Greece."
- Renas Mohammed Koshnaw – Ph.D (2016, UT). Thesis: “The Zagros fold-and-thrust belt and foreland basin of Kurdistan (Iraq)”. (co-advised with B. Horton)
- Adam Goldsmith – Ph.D. (2018, UT). Thesis: "Influence of radiation damage on helium diffusion in zircon and its application to detrital thermochronometry."
- Edgardo Josue Pujols – Ph.D. (2017, UT). Thesis: "Reconstruction of the interplay between the Sevier fold-and-thrust belt and the Sevier foreland basin, central Utah."
- Emily Cooperdock (Hernandez-Goldstein) – Ph.D. (2017, UT). Thesis: "Development of magnetite (U-Th)/He dating of serpentinites and its application of hyper-extended continental margins."
- Steffi Wafforn – Ph.D. (2017, UT). Thesis: “Temporal and thermal evolution of the Grasberg Gold District of West Papua, Indonesia”. (co-advised with M. Cloos)
- Douglas Barber – Ph.D. (2018, UT). Thesis: “Tectonic and sediment provenance evolution of the NW Zagros in Kurdistan (Iraq) and SE Turkey ”
- Alissa Kotowski – M.S. (expected 2019, UT). Thesis: “Structural, thermal, and rheological evolution during prograde metamorphism in the subduction channel – a field-oriented study in Syros, Greece” (co-advised with W. Behr)
- Margo Odlum – Ph.D. (expected 2019, UT). Thesis: “Laser ablation 4He/3He dating and concentration profile recovery - continuous thermal history reconstruction”
- Patrick Body – M.S. (2017). Thesis: “Thermal evolution of the lower crust during continental rifting and breakup”.
- John Lee – Ph.D. (2018, KU). Thesis: “Cenozoic erosion history and long-term landscape evolution of the central Sierra Nevada, California”. (co-advised with J.D. Walker at KU).

Megan Flsburg – M.S. (2018, UT). Thesis: “Cenozoic tectonic and thermal evolution of Ios Island – transition from subduction to back-arc extension”

Eirini Poulaki– M.S. (2018, UT). Thesis: “Tectonic evolution of the Cycladic Blueschist Unit – Basement contact in Sikinos, Greece”

Cullen Kortyna – Ph.D. (expected 2020, UT). Thesis: “Cenozoic provenance and drainage evolution of the NW Gulf of Mexico and SW Texas” (co-advised with J. Covault)

Kelly Thomson – Ph.D. (expected 2020, UT). Thesis: “Intra-unit variability and mixing of detrital zircon provenance studies in the modern and deep time”

Clara, Brennan – M.S. (expected 2019, UT). Thesis: “In-situ laser ablation and step-heating 4He/3He thermal history recovery”

Zack Barill-Foster – Ph.D., (expected 2021, UT). Thesis: “Insights into tectonic and basin evolution of the US Atlantic rift margin from provenance data”

Catherine Ross – Ph.D. (expected 2021, UT). Thesis: “Differentiation of circum-GOM K-Pg ejecta and tsunami deposits - the days after Chicxulub”

Samuel, Robbins – M.S. (expected 2020, UT). Thesis: “Thermal evolution of the distal and proximal hyperextended Egyptian Red Sea margin”

Daniel Ruiz – Ph.D. (expected 2022, UT). Thesis: “The role of Jurassic rift inheritance on shortening in the Mexican Fold and Thrust Belt, Southern and Eastern Mexico”

Gabriela Gutierrez – Ph.D. (expected 2022, UT). Thesis: “Variations in source to sink dynamics of the Gulf of Mexico during the Pleistocene and Holocene”

Stephanie Brichau, Ph.D. – Post-doctoral research associate (2004-2006)

Roman Kislitsyn, Ph.D. – Research associate and laboratory manager (2006-)

Bad’r Ghorbal, Ph.D. – Post-doctoral research associate (2009-2011)

Charles, Verdel, Ph.D. – Post-doctoral research associate (2010-2011)

Junsheng Nie, Ph.D. – Senior Research associate and (2011)

Shangquan Zhang, – Post-doctoral research associate (2010-2011)

Joe Andrew, Ph.D. – Post-doctoral research associate (2009)

Beate Mocek, Ph.D. – Research associate and laboratory manager (2009-2010)

Liz Cassel, Ph.D. – Post-doctoral research associate (2011-2013)

Andy Smye, Ph.D. – Post-doctoral research associate (2011-2015)

Owen Anfinson, Ph.D. – Post-doctoral research associate (2012-2015)

Ryan McKenzie, Ph.D. – Post-doctoral research associate (2013-2014)

Federico Galster, Ph.D. – Post-doctoral research associate (2015-2018)

Rudra Chatterjee, Ph.D., – Post-doctoral research associate (2017- )

**External Student Research/Thesis Member:**

B. Guest (UCLA) – External Ph.D. thesis committee member

A. Aramovicz (University of Lausanne, Switzerland) - External Ph.D. thesis committee member

Y. Roman Colon (Univ of Puerto Rico, Mayaguez) – External M.S. thesis committee member

C. von Hagke (Free Univ Berlin/GFZ, Germany) - External Ph.D. thesis committee member

M. Seht (Univ of Heidelberg, Germany) - External Ph.D. thesis committee member

J.-L. Antinao (Dalhousie Univ, Canada) - External Ph.D. thesis committee member

E. Kali (University of Strasbourg, France) - External Ph.D. thesis committee member

E. Juarez Arriaga (UNAM Queretaro, Mexico) - External Ph.D. thesis committee member

J. Oesterle (University of Wellington, NZ) - External Ph.D. thesis committee member

T. Sizemore (University of Alabama) – External M.S. thesis committee member

**Undergraduate Student Research/Thesis Supervised:**

Terrence Blackburn (2004). Senior Thesis: "Timing and origin of Kansas kimberlites".

Nathan Winters (2004). Senior Thesis: "Basalt geochemistry of the Volcanic Hills area, Esmeralda County, Nevada".

Kelly Wooten (2004). Senior Thesis: "Mesozoic magmatism and deformation in the northern White Mountains, CA and NV".

James Lyons (2004). Senior Thesis: "Petrography and geochronology of lamprolites in Woodsen County, Kansas".

Jack Desmond (2005). Senior Thesis: "Gravity and basin geometry of Queen Valley, California and Nevada".

Mark Hadley (2005). Senior Thesis: "Gravity and basin geometry of Queen Valley, California and Nevada".

Adam Kueker (2005). Senior Thesis: "Volcanic stratigraphy of Pliocene ash-flow tuffs in northern Fish Lake Valley, Nevada".

Randy Ackerman (2006). Senior Thesis: "Zircon and titanite (U-Th)/He geochronology of Oligocene ash flow tuffs in northern Fish Lake Valley"

Alec Waggoner (2007). Senior Thesis: "Monazite, xenotime, and allanite (U-Th)/He thermochronometry – a case study from the NQTL core complex, Tibet"

Spencer Seaman (2009). Senior Thesis: "(U-Th)/He dating of conodonts – A case study from in the Northern Calcareous Alps, Austria".

Josef Miller (2009). Senior Thesis: "Zircon (U-Th)/He dating of impact melts and suevites from the Manson impact, Iowa".

Adam Goldsmith (2009). Senior Thesis: "(U-Th)/He dating and He diffusion of emerald from the Eastern Cordillera, Colombia".

Cody Colleps (2013). Senior Thesis: "Zircon U-Pb geochronology of subsurface basement samples from the Western Desert, Egypt".

Laura Dafov (2016). Senior Thesis: "DZ U-Pb as a monitor of sand generation in response to dams along the Colorado River of Texas"

Dylan Hart (2016). Senior Thesis: "DZ U-Pb record of the Jurassic syn-rift strata in the central Lusitania Basin, Portugal"

Edna Rodriguez (2016). Senior Thesis: "The Devils River Uplift – Rifted piece of Laurantia or slice of Gondwana?"

Samuel Robbins (2017). Senior Thesis: "Zircon U-Pb and He constraints on the Paleozoic and Mesozoic chronostratigraphy of the Gulf of Suez, Egypt"