

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

Chevron 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:**

- 2014 – Chevron Centennial Endowed Professorship 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:**

- 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  
International Association of Structural/Tectonic Geologists  
Swiss Geological Society  
Swiss Mineralogical Society

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

## **Research and Professional Activities**

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

- 2014 *Chevron*. Detrital provenance and thermal evolution of the Kurdistan (Iraq) foreland. \$79,000.
- 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 (3 years). \$396,000.
- 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 UT Chron 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 temperatura (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:*

- 2013- Editorial Board *Lithosphere*.
- 2013- Member of EarthCube Geo- and Thermochronometry committee
- 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) initiative
- 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 Thermochronology.

*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.

*Field Trip Leader:*

- 2014 Co-leader of UT Tectonics field trip to NW Ireland (1 week)
- 2104 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 Service:*

- 2014 Member Jackson School of Geosciences Strategic Planning Committee
- 2011- Chair of Jackson School Solid Earth and Tectonic Processes Research Theme
- 2011- Organization of Solid Earth Prospective Student Weekend (Lab tours, field, trip, dinner)
- 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:*

- 2014- Member Dept. of Geological Sciences Strategic Planning Committee
- 2014 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 advisees)*

**H-factor: 35 (31 since 2009); Total Citations: 3174 (2466 since 2009) based on Google Scholar**

**Total number of publications: 185 and an RG score of 36.46 based on ResearchGate.com**

- Sathaye, K., Hesse, M.A., Cassidy, M., and Stockli, D.F., 2014, Constraints on the magnitude and rate of CO<sub>2</sub> dissolution at Bravo Dome natural gas field. *Proceedings of the National Academy of Sciences*, in press.
- Walker, J.D., Bidgoli, T.S.\*, Didericksen, B.D., Stockli, D.F., and Andrew, J.E., 2014, Middle Miocene to Recent Exhumation of the Slate Range, Eastern California, and Implications for the Timing of Extension and the Transition to Transtension. *Geosphere*, in press.
- Smye, A.\*, and Stockli, D.F., 2014, Rutile U-Pb depth profiling: A continuous record of lithospheric thermal evolution. *Earth and Planetary Science Letters*, vol. 408, p. 171-182.
- Cassel, E.J., Breecker, D.O., Henry, D.O., Larson, T.E., and Stockli, D.F., 2014, Profile of a paleo-orogen: High topography across the present-day Basin and Range from 40 to 23 Ma. *Geology*, v. 42, p. 1007-1010.
- Soares, C.J., Mertz-Kraus, R., Guedes, S., Stockli, D.F., and Zack, T., 2014, Characterisation of Apatites as Potential Uranium Reference Materials for Fission-Track Dating by LA-ICP-MS. *Geostandards and Geoanalytical Research*, v. 9, p. 18.
- Nie, J., Peng, W., Möller, A., Song, Y., Stockli, D.F., Stevens, T., Horton, B.K., Liu, S., Bird, A., Oalmann, J., Gong, H., and Fang, X., 2014, *Provenance of the upper Miocene–Pliocene Red Clay deposits of the Chinese loess plateau*. *Earth and Planetary Science Letters* 12/2014; 407:35–47.
- Levina, M., Horton, B.K., Fuentes, F., and Stockli, D.F., 2014, Cenozoic sedimentation and exhumation of the foreland basin system preserved in the Precordillera thrust belt (31–32°S), southern central Andes, Argentina. *Tectonics*, v. 33, p.
- Howe, T.H., Lindsay, J.M., Shane, P., Schmitt, A.K., and Stockli, D.F., 2014, Re-evaluation of the Roseau Tuff eruptive sequence and other ignimbrites in Dominica, Lesser Antilles. *Journal of Quaternary Science*, v. 29, p.
- Wielicki, M.M., Harrison, T.M., and Stockli, D.F., 2014, Dating terrestrial impact structures: U-Pb depth profiles and (U-Th)/He ages of zircon. *Geophysical Research Letters*.
- Singleton, J.\* and Stockli, D.F., 2013, Timing, rate, and magnitude of slip on the Buckskin-Rawhide detachment fault, west-central Arizona, *Geosphere*, in review. Pujols, E.\*, Stockli, D.F., Bosworth, W., Zircon (U-Th)/He detrital constraints on the pre- and syn-rift tectonic evolution of the central Gulf of Suez, Egypt. *Tectonics*.
- Bidgoli, T.S.\*, Amir, E., Walker, J.D., Stockli, D.F., Andrew, J.E., and Caskey, J.S., Low-temperature thermochronology of the Black and Panamint mountains, Death Valley, CA: Implications for geodynamic controls on Cenozoic intraplate strain. *Geology*, in press.
- Gebauer, S., Schmitt, A.K., Pappalardo, L., Stockli, D.F., and Lovera, O.M., Crystallization and eruption ages of Breccia Museo (campi Flegrei caldera, Italy) plutonic clasts and their relation to the Campanian Ignimbrite. *Contributions to Mineralogy and Petrology*, vol. 167, p. 953-971.
- Gorynski, K.\*, Walker, J.D., Stockli, D.F., and Sabin, A., 2014, Apatite (U–Th)/He thermochronometry as an innovative geothermal exploration tool: A case study from the southern Wassuk Range, Nevada. *Journal of Volcanology and Geothermal Research*, vol. 270, p. 99–114.
- Anfinson, O.A., Leirer, A.L., Dewing, K., Guest, B., Stockli, D.F., and Embry, A.F., 2013, Insights into the Phanerozoic tectonic evolution of the northern Laurentian margin: detrital apatite and zircon (U–Th)/He ages from Devonian strata of the Franklinian Basin, Canadian Arctic Islands. *Canadian Journal of Earth Sciences*, vol. 50, p. 761-768.

- Schmitt, A.K., Martin, A., Weber, B., Stockli, D.F., Zou, H., and Shen, C.-C., 2013, Oceanic magmatism in the sedimentary basins of the northern Gulf of California rift, *Geological Society of America Bulletin*, vol. 125, p. 1833-1850.
- Karl, M., Glasmacher, U.A., Kollenz, S., Franco-Magalhaes, A.O.B., Stockli, D.F., Hackspacher, P.C., 2013, Evolution of the South Atlantic passive continental margin in southern Brazil derived from zircon and apatite (U–Th–Sm)/He and fission-track data. *Tectonophysics*, vol. 604, p. 224-244.
- Lindsay, J.M., Trumbull, R.B., Schmitt, A.K., Stockli, D.F., Shane, P., and Howe, T., 2013, Volcanic stratigraphy and geochemistry of the Soufrière Volcanic Centre, Saint Lucia with implications for volcanic hazards. *Journal of Volcanology and Geothermal Research*, vol. 258, p. 126-142.
- Sundell, K.E.\*, Taylor, M.H., Styron, R.H., Stockli, D.F., Kapp, P., Hager, C.\*. Liu, D., and Ding, L., 2013, Evidence for constriction and Pliocene acceleration of east-west extension in the North Lunggar rift region of west central Tibet. *Tectonics*, DOI: 10.1002/tect.20086.
- Styron, R.H., Taylor, M.H., Sundell, K.E.\*, Stockli, D.F., Oalmann, J.A.G., Möller, A., McCallister, A.T., Liu, D., and Ding, L., 2013, Miocene initiation and acceleration of extension in the South Lunggar rift, western Tibet: evolution of an active detachment system from structural mapping and (U-Th)/He thermochronology. *Tectonics*, vol. 32, p. 880-907.
- Moreno, N., Silva, A., Mora, A., Teson, E., Quintero, I., Rojas, L.E., Lopez, C., Blanco, V., Castellanos, J., Sanchez, J., Osorio, L., Namson, J., Stockli, D.F., and Casallas, W., 2013, Interaction between thin- and thick-skinned tectonics in the foothill areas of an inverted graben. The Middle Magdalena Foothill belt. *Geological Society of London Special Publications*, vol. 377(1), p. 221-255.
- Carrapa, B., Reyes-Bywater, S., Safipour, R., Sobel, E.R., Schoenbohm, L.M., DeCelles, P.G., Reiners, P., and Stockli, D.F., 2013, The effect of inherited paleotopography on the exhumation of the Central Andes of NW Argentina, *Geological Society of America Bulletin*, in press.
- Gorynski, K. \*, Stockli, D.F., and Walker, J.D., 2013, Thermochronometrically constrained anatomy and evolution of a Miocene extensional accommodation zone and tilt domain boundary: the southern Wassuk Range, Nevada. *Tectonics*, vol. 32, p. 1–24, doi:10.1002/tect.20044, 2013.
- Mora, A., Blanco, V., Naranjo, J., Sanchez, N., Ketcham, R.A., Rubiano, J., Stockli, D.F., Quintero, I., Nemcok, M., Horton, B.K., and Davila, H., 2013, On the lag time between internal strain and basement involved thrust induced exhumation: The case of the Colombian Eastern Cordillera. *Geological Society, London, Special Publications*, v. 377, 10.1144/SP377.6.
- Jimenez, L., Mora, A., Casallas, W., Silva, A., Teson, E., Tamara, J., Namson, J., Higuera-Diaz, I.C., Lasso, A., Stockli, D.F., 2013, Segmentation and growth of footwall thrust-belts adjacent to inverted grabens; the case of the Colombia Llanos foothills. *Geological Society, London, Special Publications*, v. 377, 10.1144/SP377.6.
- Caballero, V., Mora, A., Quintero, I., Blanco, V., Parra, M., Rojas, L.E., Lopez, C., Sanchez, N., Horton, B., Stockli, D.F., and Duddy, I., 2013, Tectonic controls on sedimentation in an intramontane hinterland basin adjacent to inversion structures: the Nuevo Mundo syncline, Middle Magdalena Valley, Colombia. *Geological Society, London, Special Publications*, v. 377, 10.1144/SP377.6.
- Mora, A., Reyes-Harker, A., Rodriguez, G., Teson, E., Ramierz-Arias, J.C., Parra, M., Caballero, V., Mora, J.P., Quintero, I., Valencia, V Ibanez, M., Horton, B.K, Stockli D.F., 2013, Inversion tectonics under increasing rates of shortening and sedimentation: Cenozoic example from the Eastern Cordillera of Colombia. *Geological Society, London, Special Publications*, v. 377, 10.1144/SP377.6.
- Woodruff, W.H., Horton, B.K., Kapp, P., and Stockli, D.F., 2013, Late Cenozoic evolution of the Lunggar extensional basin, Tibet: Implications for basin growth and exhumation in hinterland plateaus. *Geological Society of America Bulletin*, v. 125 no. 3-4 p. 343-358.
- Lee, J.P.\*, Stockli, D.F., Kelley, S.A., Pederson, J.L., Karlstrom, K.E., and Ehlers, T.A., 2013, New thermochronometric constraints on the Tertiary landscape evolution of the central and eastern Grand Canyon, Arizona. *Geosphere*, v. 9, p. 216-228.
- Sobel, E.R., Chen, J., Schoenbohm, L.M., Thiede R., Stockli, D.F., Sudo, M., and Strecker, M., 2013, Oceanic-style subduction controls late Cenozoic deformation of the Northern Pamir orogen. *Earth and*

- Planetary Science Letters, v. 363, p. 204-218.
- Ballato, P., Stockli, D.F., Ghassemi, M.R., Landgraf, A., Strecker, M.R., Hassanzadeh, J., Friedrich, A., and Tabatabaei, S.H., 2013, Accommodation of transpressional strain in the Arabia-Eurasia collision zone: new constraints from (U-Th)/He thermochronology in the Alborz mountains, north Iran. DOI: 10.1029/2012TC003159.
- Anfison O.A., Leier, A.L., Dewing, K., Guest, B., Stockli, D.F., Dewing, K., and Embry, A., and Hibbard, J., 2013, Insights into the Tectonic Evolution of the Northern Laurentian Margin of Arctic Canada from Detrital Apatite and Zircon (U-Th)/He Ages. *Canadian Journal of Earth Sciences*, vol. 50, p. 761-768.
- Schmitt, A.K., Martin, A., Stockli, D.F., Farley, K.A., and Lovera, O.M., 2013, (U-Th)/He zircon and archaeological ages for a late prehistoric eruption in the Salton Trough (California, USA). *Geology*, v. 41, p. 7-10.
- Berger, A., Schneider, D.A., Graseman, B., and Stockli, D.F., 2012, Footwall mineralization during Late Miocene extension along the West Cycladic Detachment System, Lavrion, Greece. *Terra Nova*, vol. 25, p. 181-191.
- Von Hagke, C., Cederbom, C.E., Oncken, O., Stockli, D.F., Rahn, M.K., and Schlunegger, F., 2012, Linking the Northern Alps with their foreland: the latest exhumation and erosion history resolved by low temperature thermochronology. *Tectonics*, v. 31, 10.1029/2011TC003078.
- Soukis, K., and Stockli, D.F., 2013, Structural and thermochronometric evidence for multi-stage exhumation Of Southern Syros, Cycladic Islands, Greece. *Tectonophysics*. vol. 595-596, p. 148-164.
- Bargnesi, E.\*, Stockli, D.F., Macktelow, N., and Soukis, K., 2012, Miocene core complex development and coeval supradetachment basin evolution of Paros, Greece - Insights from (U-Th)/He thermochronometry. *Tectonophysics*, vol. 595-596, p. 165-182.
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*Invited Lectures and Short Courses (past 5 years):*

- 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, Ecoceptrol-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 Thermochronometric 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

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 Post-doctoral mentor: K. Farley (Caltech)

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

Juan Pablo Centeno - M.S. (2004). Thesis: “Exhumation of the Torngat Mountains, northern Labrador, Canada”.

David Bradley - M.S. (2005). Thesis: “Kinematics and slip rates of the Coaldale Fault, Nevada”.

Christopher Tincher - M.S. (2005). Thesis: “Cenozoic Volcanism and Tectonics in the Queen Valley Area, western Nevada”.

Terrence Blackburn - M.S. (2006). Thesis: “(U-Th)/He Dating of Xenoliths from Kimberlites and basaltic volcanic fields”.

John Lee - M.S. (2007). Thesis: “Thermochronometric constraints on the incision history of the Grand Canyon from borehole and surface samples”.

Melissa Wolfe - M.S. (2009). Thesis: “He Diffusion in Rutile and Calibration of Rutile (U-Th)/He Thermochronology on the KTB Ultra-Deep Borehole”.

- Markella Hoffman - M.S. (2009). Thesis: "Incision and exhumation history of the Colorado Plateau in the Canyonlands to Book Cliffs Region, Utah".
- Travis Glauser - M.S. (2009). Thesis: "Thermochronometric investigation of multiple unconformities and post-depositional thermal history of a fault block in the northern Western Desert, Egypt".
- Chris Hager – Ph.D. (2014). Thesis: "Structural Geology and Neotectonics of the Xianza Rift, Central Tibet".
- Eugene Szemanski – Ph.D. (2012). Thesis: "Structural and sedimentological evolution of the Wadi Al-Hamd half-graben, Medina, Kingdom of Saudi Arabia".
- Terrence J. Dewane - Ph.D. (expected?). Thesis: "Cenozoic E-W Extension in the Southern Tangra Yum Co Rift, Central Tibet".
- Evan Bargnesi – M.S. (2011). Thesis: "Thermochronometric constraints on detrital provenance and source thermal evolution from a supra-detachment basin in Paros, Greece."
- Edgardo Pujols – M.S. (2011). Thesis: "Structural evolution and timing of extensional faulting in the central Gulf of Suez, Egypt."
- Kyle Gorynski – M.S. (2011). Thesis: "Thermochronometric Constraints on the Longevity of a Geothermal System in an Extensional Tectonic Setting".
- Sarah Evans – M.S. (2011). 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). Thesis: "Thermochronology of the Lunggar active metamorphic core complex, Tibet".
- Jordan Leigh Taylor – M.S. (2012). Thesis: "Magnetite (U-Th-[Sm])/He geochronology of Colombia River Basalts".
- Caleb Rhatigan, – M.S. (2013). Thesis: "Magnetite (U-Th-[Sm])/He geochronology of Colombia River Basalts".
- Joseph Miller – M.S. (2012). Thesis: "Detrital (U-Th)/He and U-Pb dating of the northern Alpine Flysch and Molasse, central Switzerland".
- Yomayra Roman – M.S. (2014). Thesis: "Thermochronometric insights into the tectonic and thermal evolution of Puerto Rico" (co-advised with A. Covise at UPRM; at UT since 2011)
- Tim Shin, M.S. (2014). Thesis: "Contractional and extensional evolution of the Aegean tectono-metamorphic complex in Andros and Tinos islands, Greece."
- Tandis Bidgoli – Ph.D. (2014). Thesis: "Temporal and kinematic reconstruction of middle Miocene extension and transition to Mio-Pliocene transension in the Las Vegas area." (co-advised with J.D. Walker at KU).
- Jeff Schroeder – Ph.D. (2014). Thesis: "Geological and Neotectonic Strain Transfer in Northern Fish Lake Valley, Nevada".
- John Lee – Ph.D. (expected 2015). Thesis: "Cenozoic erosion history and long-term landscape evolution of the central Sierra Nevada, California". (Primary advisor, co-advised with J.D. Walker at KU).
- Daniel Arnost, M.S. (expected 2014). Thesis: "Impact of meteoric fluid flow on the long-term thermal evolution - insights from Alpine tunnels studies."
- Joshua Burrus, M.S (2013). Thesis: "Integrated footwall and hanging wall tectonics and stratigraphic evolution of the Weepah Metamorphic Core Complex, Nevada."
- Adam Goldsmith, Ph.D. (expected 2015). Thesis: "Influence of radiation damage on helium diffusion in zircon and its application to detrital thermochronometry."
- Nicole Hart, M.S. (2014). Thesis: "Coupled bedrock and detrital thermochronometry of a hyper-extended continental margin, Mauleon, Pyrenees."
- Emily Hernandez-Goldstein, Ph.D. (expected 2016). Thesis: "Development of magnetite (U-Th)/He dating of serpentinites and its application of hyper-extended continental margins."
- Alison MacNamee, M.S. (2014). Thesis: "Coupled Thermochronometric and Geochemical Investigation of Blind Geothermal Resources in Fault-Controlled Dilational Corners, Dixie Valley, Nevada."

Mike Prior, Ph.D. (expected 2015). Thesis: "Tectonic and thermal evolution of the Bullfrog Metamorphic Core Complex, Nevada."

Edgardo Josue Pujols, Ph.D. (expected 2015). Thesis: "Reconstruction of the interplay between the Sevier fold-and-thrust belt and the Sevier foreland basin, central Utah."

Spencer Seman, Ph.D. (expected 2015). Thesis: "Novel geo-and thermochronometric and petrologic insights into the evolution of HP rocks in the central Aegean, Greece."

Micheal Cloos, M.S. (2014 – co-advised with R. Steel). Thesis: "Sedimentary and provenance evolution of the Plio-Pleistocene Colorado River Delta, California"

Renas Mohammed, Ph.D (expected 2016 – co-advised with B. Horton). Thesis: "The Zagros fold-and-thrust belt and foreland basin of Kurdistan (Iraq)"

Steffi Wafforn, Ph.D. (expected 2017 – co-advised with M. Cloos). Thesis: "Temporal and thermal evolution of the Grasberg Gold District of West Papua, Indonesia"

Douglas Barber, Ph.D. (expected 2018). Thesis: "Tectonic and sediment provenance evolution of the NW Zagros in Kurdistan (Iraq) and SE Turkey "

Nikki Seymour, M.S. (expected 2015). Thesis: "Lower-crustal syn-rift exhumation at a hyper-extended continental margin – a case study in NE Corsica, France"

Alissa Kotowski, M.S. (expected 2018– co-advised with W. Behr). Thesis: "Structural, thermal, and rheological evolution during prograde metamorphism in the subduction channel – a field-oriented study in Syros, Greece"

Cody Colleps, M.S. (expected 2016). Thesis: "Integrated structural and stratigraphic study of the frontal Himalayas in NW India"

Kelly Thomson, M.S. (expected 2016). Thesis: "Detrital U-Pb-He provenance investigation of the Ainsa Basin, Southern Pyrenees"

Margo Odlum, Ph.D. (expected 2018). Thesis: "Laser ablation 4He/3He dating and concentration profile recovery - continuous thermal history reconstruction"

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-)

Owen Anfinson, Ph.D. – Post-doctoral research associate (2011-)

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

#### **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. Sehart (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

#### **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".