CURRICULUM VITAE – DAVID MOHRIG

David Mohrig
Department of Earth and Planetary Sciences
Jackson School of Geosciences
The University of Texas at Austin
2305 Speedway, Mail Stop C1160
Austin, TX 78712 USA
phone: 512-422-5487
mohrig@jsg.utexas.edu

ACADEMIC DEGREES:

Ph.D. 1994	Geological Sciences, University of Washington, Seattle, Washington
M.S. 1987	Geological Sciences, University of Washington, Seattle, Washington
B.A. 1983	Geology, Pomona College, Claremont, California (Cum Laude)

PROFESSIONAL APPOINTMENTS:

9/26 – present	Peter T. Flawn Centennial Chair Emeritus in Geology, The University of Texas at Austin
9/26 – present	Professor Emeritus, Department of Earth & Planetary Sciences, Jackson School of Geosciences, The University of Texas at Austin
9/20 – 8/31/26	Peter T. Flawn Centennial Chair in Geology, The University of Texas at Austin
9/11 – 8/31/26	Professor, Department of Earth & Planetary Sciences, Jackson School of Geosciences, The University of Texas at Austin
1/18 – 9/23	Associate Dean for Research, Jackson School of Geosciences, The University of Texas at Austin
9/12 – 8/20	John E. "Brick" Elliott Centennial Professor in Geological Sciences, Department of Geological Sciences, Jackson School of Geosciences, The University of Texas at Austin
8/06 – 9/11	Associate Professor of Geology, Department of Geological Sciences, Jackson School of Geosciences, The University of Texas at Austin
7/06 – 8/06	Associate Professor of Geology, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts
6/01 – 7/06	Assistant Professor of Geology, Cecil and Ida Green Career Development Chair, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts
12/96 – 6/01	Senior Research Geologist, Exxon Production Research Company & ExxonMobil Upstream Research Company, Houston, Texas
6/94 – 12/96	Post-Doctoral Associate, Department of Geology and Geophysics and St. Anthony Falls Laboratory, University of Minnesota, Minneapolis, Minnesota

PROFESSIONAL RECOGNITION, 2001-present:

External:

- 2025 Honorable Mention for Best Paper in INTERPRETATION: Morris, P.D., Sylvester, Z., Covault, J.A., Mohrig, D., and Jenson, J.L., 2025, The impact of reservoir architecture on dynamic connectivity in sinuous deep-water channel systems: Interpretation, 13 (3), 1-70.
- American Geophysical Union College of Fellows Distinguished Lecture Series Lecturer, 2025-2026
- 2021 G.K. Gilbert Award in Surface Processes. Awarded by the American Geophysical Union in recognition of sustained and outstanding contributions to the field of Earth and planetary surface processes.
- 2019 Francis J. Pettijohn Medal for Sedimentology. Awarded by the Society for Sedimentary Geology (SEPM) in recognition of "Excellence in Sedimentology."
- 2016 American Geophysical Union Fellow.

- 2013 Water Resources Research Editor's Choice Award: Kenney, M. A., B. F. Hobbs, D. Mohrig, H. Huang, J. A. Nittrouer, W. Kim, and G. Parker (2013), Cost analysis of water and sediment diversions to optimize land building in the Mississippi River delta, Water Resour. Res., 49, 3388–3405, doi:10.1002/wrcr.20139.
- 2009 Outstanding Paper in Journal of Sedimentary Research: Straub, K.M., Paola, C., Mohrig, D., Wolinsky, M.A., and George, T., 2009, Compensational stacking of channelized sedimentary deposits: Journal of Sedimentary Research, v.79, p. 673-688.
- NSF – MARGINS Distinguished Lecturer, 2008 – 2009
- External Examiner for PhD Viva of Joris Eggenhuisen, University of Leeds, UK, April 2009
- Best Poster Award for *Using the stratification produced by climbing dune to estimate the filling histories of submarine turbidite channels*, 2003 Submarine Slope Systems Conference, sponsored by IAS
- Clastic Sediments Citation *in* Annual Highlights Issue: A Review of Year 2000 Research in Earth Science *for* Mohrig et al. (2000): Geotimes, 2001, v.46, n.7.

Internal:

- Joseph C. Walter Jr. Excellence Award, Jackson School of Geosciences, UT-Austin, 2023
- Knebel Distinguished Teaching Award – Introductory Course, DGS, Jackson School of Geosci., UT-Austin, 2022
- Faculty Overall Performance Award – Full Professor, DGS, Jackson School of Geosciences, UT-Austin, 2015
- Knebel Distinguished Teaching Award – Undergraduate Course, DGS, Jackson School of Geosci., UT-Austin, 2015
- 2014 Outstanding Educator Award, Jackson School of Geosciences, UT-Austin
- Knebel Distinguished Teaching Award, DGS, Jackson School of Geosciences, UT-Austin, 2013
- Faculty Overall Performance Award – Full Professor, DGS, Jackson School of Geosciences, UT-Austin, 2013
- Knebel Distinguished Teaching Award, DGS, Jackson School of Geosciences, UT-Austin, 2011
- Joseph C. Walter Jr. Excellence Award, Jackson School of Geosciences, UT-Austin, 2008
- Knebel Distinguished Teaching Award, DGS, Jackson School of Geosciences, UT-Austin, 2007-2008
- Cecil and Ida Green Career Development Chair, EAPS, MIT, 2003 - 2006
- Excellence in Instruction Award, ExxonMobil Upstream Research Company, 2001

PROFESSIONAL ADMINSTRATIVE AND PUBLIC SERVICE:

Academic Service:

- CHAIR, Dean Search Committee, Jackson School of Geosciences, Spring 2025 – Fall 2025
- Member, Search Committee for UTIG - Co-Director of Gulf Basin Depositional Synthesis Program, Spring 2025
- Member, Comprehensive Periodic Review of Professor Ginny Catania, Jackson School of Geosciences, Fall 2024
- Member, TGCRC Research Vessel Design Committee, Marine Science Institute, UT-Austin, Fall 2023 –
- Member, Comprehensive Periodic Review of Professor Edward Buskey, College of Natural Sciences, Fall 2023 – Spring 2024
- Member, Executive Committee of the Texas Gulf Coast Research Center (TGCRC), Marine Science Institute, UT-Austin, Fall 2023 –
- Member, UTIG Research Assistant Professor Search Committee, Jackson School of Geosciences, UT-Austin, Fall 2023 – Spring 2024
- Member, Director of BEG Search Committee, Jackson School of Geosciences, UT-Austin, Fall 2023 – Spring 2024
- Member, College of Natural Sci. Search Com. for Managing Director of the TX Field Stations Network, Spring 2023
- Member, DGS Search Committee for Assistant Professors in Earth and Planetary Sciences, Fall 2022 – Spring 2023

- Member, DGS Search Committee for an Assistant/Associate Professor of Instruction & Field Camp Director, Summer 2022 – Fall 2022
- Member, DGS Name Change Committee, Fall 2021 – Fall 2022
- Member, Graduate Studies Committee for the Energy & Earth Resources MS Program, JSG, Fall 2021 –
- Member, Endowed Positions Subcommittee of the DGS Budget Council, Fall 2018 –
- Member, Jackson School of Geosciences Executive Committee, Spring 2018 – Fall 2023
- Official Mentor to Assistant Professor Timothy Goudge, Spring 2019 –
- Official Mentor to Associate Professor Rowan Martindale, Spring 2019 –
- Member, Jackson School of Geosciences Strategic Planning Council, Spring 2016 – Fall 2023
- CHAIR, JSG Distinguished Post-doctoral Fellows Selection Committee, Fall 2021 – Spring 2023
- Member, Council on TEXAS Impact, Advisory Council to UT-Austin President Gregory L. Fenves, Spring 2019 – Spring 2020
- CHAIR, Dean Search Committee, Jackson School of Geosciences, Spring 2019 – Fall 2019
- CHAIR, Dept. of Geological Sciences Sedimentary Geology Faculty Search Committee, Fall 2017 – Spring 2018
- LEADER, Department of Geological Sciences Subsurface to Surface & Life Program, Fall 2016 – Spring 2018
- Member, Department of Geological Sciences Executive Committee, Fall 2016 – Spring 2018
- LEADER, Jackson School of Geosciences Surface & Hydrologic Processes Research Theme, Fall 2011 – Spring 2018
- Member, Dept. of Geological Sciences Lithospheric Dynamics Faculty Search Committee, Fall 2016 – Spring 2017
- Member, JSG Undergraduate Program & Curriculum Review Committee, Spring 2016 – Spring 2018
- CHAIR, Ad-hoc DGS Promotion Committee to evaluate Dr. Joel Johnson for Assoc. Prof., Spring 2016 – Fall 2016
- Member, Department of Geological Sciences IT Steering Committee, Fall 2015 – Fall 2016
- CHAIR, Department of Geological Sciences Faculty Productivity Assessment Committee, Fall 2014 – Spring 2016
- CHAIR, Department of Geological Sciences Chair Search Committee, Fall 2014 – Fall 2016
- Member, Ad-hoc DGS Promotion Comm. to evaluate Dr. Mary Poteet for Senior Lecturer, Spring 2015 – Fall 2015
- Member, Department of Geological Sciences Strategic Planning Committee, Spring 2014 – Spring 2015
- Member, Consultative Committee for Evaluation of Dean of Jackson School of Geosciences, UT-Austin, Spring 2015
- Member, Dept. of Geological Sciences Exploration Geophysics Faculty Search Committee, Fall 2014 – Spring 2015
- Member, Bureau of Economic Geology Search Committee for QCL IA Leader, Fall 2014 – Spring 2015
- Coordinator of Prospective Graduate Student Weekend (February 21 – 23, 2015) for the Surface & Hydrologic Processes Research Theme, Jackson School of Geosciences
- Coordinator of Prospective Graduate Student Weekend (February 23 – 24, 2014) for the Surface & Hydrologic Processes Research Theme, Jackson School of Geosciences
- CHAIR, Ad-hoc DGS Budget Council Committee to evaluate promotion of Dr. Cornel Olariu to Research Scientist, Spring 2013 – Spring 2014
- Member, Jackson School of Geosciences, Graduate Student Admissions & Support Committee, Fall 2011 – Fall 2013
- Member, Ad-hoc JSG committee to evaluate Earth Sensing & Rapid Response program at JSG, Fall 2012-Spring 2013
- Member, Ad-hoc DGS Budget Council Committee to evaluate promotion of Dr. Ginny Catania to position of Associate Professor with tenure, Spring 2012 – Fall 2012

- Coordinator of Prospective Graduate Student Weekend (February 23 – 24, 2013) for the Surface & Hydrologic Processes Research Theme, Jackson School of Geosciences
- Member, Jackson School of Geosciences, Equipment Committee, 2011 – 2012
- Coordinator of Prospective Graduate Student Weekend (February 25-27, 2012) for the Surface & Hydrologic Processes Research Theme, Jackson School of Geosciences
- CHAIR, Ad-hoc Committee on GSC Membership Policy for Jackson School of Geosciences, Spring 2012
- Dept of Civil, Architectural & Environmental Engineering, UT-Austin, Search Committee for Director of Center for Research in Water Resources, May 2011
- Cockrell School of Engineering, UT-Austin, Visioning Meetings – Water Systems for Sustainability, February & August 2010
- Member, Dept of Civil, Architectural & Environmental Engineering, UT-Austin, Faculty Search Committee in Water Resources, Fall 2009 – Spring 2010
- Member, Dean Search Committee, Jackson School of Geosciences, 2008 - 2009
- CHAIR, Jackson School of Geosciences, Earth-surface & Hydrologic Processes Theme Search Committee, 2007 - 2009
- Jackson School of Geosciences, Strategic Planning Council, 2008 - 2010
- Dept of Geological Sciences, IT Committee, 2008 - 2010
- Jackson School of Geosciences, Opportunity Hire Search Committee, 2007 - 2008
- Dept of Geological Sciences, Department Head Search Committee, 2007
- Jackson School of Geosciences, Graduate Curriculum Committee, 2007 - 2008
- Dept of Geological Sciences, Curriculum Committee for General BS in Geology, 2007 -2008
- MIT, EAPS Undergraduate Education Committee, 2004 & 2005
- MIT, EAPS Graduate Admissions Committee, 2002 & 2003
- MIT, Floating member for EAPS Geology & Geochemistry General Examinations, 2002

Professional Service:

- Member, Awards Committee for Earth & Planetary Surface Processes Section of the American Geophysical Union. 2024
- Member, Awards Committee for Earth & Planetary Surface Processes Section of the American Geophysical Union. 2022
- External discussant for Review Committee of the Geology program at American University of Beirut. Provided observations and opinions on worldwide trends in geoscience education, as well as specific feedback on the committee's assessment document prepared for the AUB Office of the Provost and Dean of Arts and Sciences. February, 2022.
- Member of Expert Panel assembled by The Water Institute of the Gulf and the Louisiana Coastal Protection and Restoration Authority to evaluate the potential impacts of neotectonics on management of coastal natural resources and coastal restoration at the planning time scale. Fall 2019 – Spring 2023
- Member of Community Surface Dynamics Modeling System (CSDMS) Steering Committee. 2016 – 2020.
- Associate Editor, *Sedimentology*. 2013 – 2016.
- Founding Member, Gulf Coastal Science Consortium. The consortium was dedicated to assessing the state of scientific knowledge about impacts of Global Change on the Gulf Coast and conveying this information to policy makers, the media and public, thereby encouraging a Gulf-wide coastal sustainability plan. June 2012 – 2016.

- Member of Board of Directors for STEPPE (Sedimentary Geology, Time, Environment, Paleontology, Paleoclimate and Energy); a new effort to help unify the sedimentary crust research community jointly initiated by the Geological Society of America, the Society for sedimentary Research (SEPM), and the Paleontological Society. 2012 – 2015.
- Member of STEPPE Executive Director Nominating Committee. The STEPPE (Sedimentary Geology, Time, Environment, Paleontology, Paleoclimate and Energy) office engages the sedimentary-crust research community in productive interaction. The STEPPE effort was jointly initiated by the Geological Society of America, the Society for sedimentary Research (SEPM), and the Paleontological Society. Initial funding for the Executive Director is funded by a grant from the National Science Foundation. 2012 – Spring 2014.
- Program Leader, Subsurface Architecture Integrated Program, National Center for Earth Surface Dynamics, 2005 – 2013
- Steering Committee Member, Major Initiative in Sedimentary Geology and Paleontology Science Plan Workshop. Prepare white paper entitled *"Transitions: The Changing Earth-Life System – Critical Information for Society from the Deep Past"* for H. Richard Lane and Tim Killeen, NSF Directorate for Geosciences, 2011 – 2012.
- Official Reviewer *of* New Research Opportunities in the Earth Sciences, 2011, Committee on New Research Opportunities in the Earth Sciences at the National Science Foundation, Board on Earth Sciences and Resources, Division on Earth and Life Studies, National Research Council of the National Academies: The National Academies Press, Washington DC.
- Official Reviewer *of* Landscapes on the Edge: New Horizons for Research on Earth's Surface, 2010, Committee on Challenges and Opportunities in Earth Surface Processes, Board on Earth Sciences and Resources, Division on Earth and Life Studies, National Research Council of the National Academies: The National Academies Press, Washington DC.
- Executive Committee Member, newly formed Earth & Planetary Surface Processes Focus Group, American Geophysical Union, 2009 – 2010.
- Member of Marine Working Group, NSF Community Surface Dynamics Modeling System, 2008 – 2010
- Member of Selection Committee for SEPM's Pettijohn Medal for 'Excellence in Sedimentology, 2007-2008.
- Co-authored white paper entitled *Sedimentary geology: the power of the long view* for H. Richard Lane, NSF Earth Sciences Division, July 2003
- Member, Executive Committee, National Center for Earth Surface Dynamics, 2004 – 2012
- Associate Editor, 1998-2000, Journal of Sedimentary Research

Organized Technical Sessions, Conferences, & Workshops, 2001-present:

- Conference co-organizer, 2024, *From Ice Sheets to the Coast: Sea-level Rise Impacts*, Houston, TX, 9 – 12 April.
- Technical Sessions co-chair, 2016, *Physical Sedimentary Processes* at 32nd IAS Meeting of Sedimentology, Marrakech, Morocco, 23 – 25 May.
- Moderator, 2016, *Geological & Biomedical Sciences Session*, Plan II Thesis Symposium, Austin, TX, April 17.
- Technical Sessions co-chair, 2015, *Hydraulic Reconstructions of Sedimentary Deposits and Landforms: Modern and Ancient I, II,* Sessions EP33C & EP41D at AGU 2015 Fall Meeting, San Francisco, CA, 14 – 18 Dec.
- Technical Sessions co-chair, 2014, *Hydraulic Reconstructions of Sedimentary Deposits and Landforms: Modern and Ancient I, II*, Sessions EP11B & EP13A at AGU 2014 Fall Meeting, San Francisco, CA, 15 – 19 Dec.
- Technical Sessions co-chair, 2013 AGU Annual Meeting, *Deltas: A Multi-Trillion Dollar Problem I, II, III,* San Francisco, CA, 11 Dec.
- Co-chair, Robert P. Sharp Lecture, 2010 Fall Meeting, AGU, San Francisco, CA, 13-17 Dec.
- Technical session co-chair, 2009 AGU Annual Meeting, *Dynamics and Processes of Deltas, Fans, and their Distributary Channels 1 & 2.*

- Co-organizer, SEPM & Geological Society of London Joint Research Conference—*Application of Seismic Geomorphology Principles to Continental Slope and Base-of-Slope Systems*, Houston, Texas, November 2009.
- Technical Session co-chair, 2008 AGU Annual Meeting, *Stochastic Transport and Emergent Scaling on the Earth's Surface.*
- Technical session co-chair, 2008 GSA Annual Meeting, *Channel Networks as a Template for Earth and Environmental Processes: Toward an Integrative Process Model for Landscape Evolution.*
- Member of organizing Scientific Committee, SEPM Research Conference—*Clinoform Sedimentary Deposits: The Processes Producing Them and the Stratigraphy Defining Them*, Rock Springs, Wyoming, August 2008.
- Technical session co-chair, 2007 AAPG/SEPM Annual Meeting, *Processes and Modeling of Deep-Water Flows 1, 2 & 3.*
- Technical session co-chair, 2005 AGU Fall Meeting, *Constructional Landscapes: From Deltas to Leveed Channels.*
- Co-organized and hosted a NSF-NCED sponsored 3-day working group, *Modeling shorelines and their associated processes and phenomena*. Group consisted of 20 earth scientists, mathematicians, and engineers, July 2005.
- Co-organized and hosted a NSF-NCED sponsored 4-day working group, *Novel methods for modeling the surface evolution of geomorphic interfaces*. Group consisted of 15 earth scientists, mathematicians, and engineers, July 2004.
- Technical session chair, 2004 AAPG/SEPM Annual Meeting, *Measuring and Modeling Sedimentary Bedforms.*
- Technical session co-chair, 2003 GSA Annual Meeting, *Clinoforms: Past, Present, and Modeled.*
- Technical session co-chair, 2003 Submarine Slope Systems Conference, Liverpool, UK, *Flow and Depositional Processes*
- Technical session chair, 2002 AAPG Annual Meeting, *Eustatic, Tectonic and Sedimentary Control on Depositional Sequences: Relative Importance*.
- Technical session chair, 2001 AAPG Annual Meeting, *Sediment Transport Processes Applied to the Interpretation of Deep-Water Systems.*

Public Service:

- Panel Member. Importance of Fieldwork for a Geoscience Education. AAPG Women's Network Technical Webinar Series. 17 May 2022.
- Lecturer, GeoFORCE Texas, Summer, 2011, 9th Grade Summer Academy, UT-Austin.
- Field Instructor, April 2011, GeoFORCE Texas online dual-credit geology course for high schools in southwest Texas and Houston, Field Trip Exploring Change in the Texas Coastline.
- Lecturer, GeoFORCE Texas, Summer, 2010, 9th Grade Summer Academy, UT-Austin.
- Instructor, GeoFORCE Texas, July 27-31, 2009, Houston Texas Young Geoscientists 12th Grade Field Course, West Texas.
- Lecturer, GeoFORCE Texas, Summer, 2009, 9th Grade Summer Academy, UT-Austin.

PUBLICATIONS:

Google Scholar h-index = 64 | Web of Science h-index = 50

Google Scholar: https://scholar.google.com/citations?user=lbf8s94AAAAJ&hl=en | *14,332 citations*
Web of Science Researcher ID: https://www.webofscience.com/wos/author/record/747548 | *8,048 citations*

^ = undergraduate student member my research group
* = graduate student member my research group
** = post-doctoral member my research group
- = undergraduate student
+ = graduate student

++ = post-doc

2026:

162. *Wilson, K., Swanson, T., & Mohrig, D., 2026, Numerical modeling of aeolian-dune development in carbonate island settings: exploring last interglacial environmental conditions on coastal dune morphology in The Bahamas and Turks and Caicos: Journal of Sedimentary Research, 96 (5), 892-910.

161. ^Ruangsirikulchai, A., *Wilson, K., & Mohrig, D., 2026, Reshaping of San Jose Island, TX, USA, by unconfined washover and channelized washout during Hurricane Harvey. J. Geophys. Research: Earth Surface, 131, e2025JF008876.

160. *Daniller-Varghese, M., ^Smith, E., Mohrig, D., and Myrow, P., 2026, Wave-signal entrainment into combined flows: Consequences for sediment transport, signal dislocation, and turbulence: Journal of Geophysical Research: Earth Surface 131 (2), e2025JF008497

2025:

159. ++Zaki, A.S., Goudge, T.A. and Mohrig, D., 2025. Large drainage systems produced half of Mars' ancient river sediment. Proceedings of the National Academy of Sciences, 122(48), p.e2514527122.

158. *Morris, P.D., Sylvester, Z., Covault, J.A., Mohrig, D., and Jenson, J.L., 2025, The impact of reservoir architecture on dynamic connectivity in sinuous deep-water channel systems: Interpretation, 13 (3), T607-T628.

157. *Bailey, W.S., Olariu, C., and Mohrig, D., 2025, Microplastics in bays along the central Texas coast: Environmental Science & Technology, 59 (10), 5249-5260.

156. Passalacqua, P., and Mohrig, D., 2025, Coastal and Deltaic Environments, in R. Pöppl, A. Parsons, and S. Keesstra, eds., Connectivity in Geomorphology, Cambridge University Press, Cambridge, United Kingdom, p. 162-190.

2024:

155. ^Malito J., and Mohrig, D., 2024, Unintended consequences of modifying coastal river systems: Frontiers in Marine Science, 11, 1492435. doi: 10.3389/fmars.2024.1492435

154. +Gearon, J.H., Martin, H.K., DeLisle, C., Barefoot, E.A., Mohrig, D., Paola, C., and Edmonds, D.A., 2024, Rules of River Avulsion Change Downstream: Nature. https://doi.org/10.21203/rs.3.rs-3660956/v1

153. +O'Donnell, S.B., Johnson, B.A., ++Breard, E.C.P., Buttles, J.L., Gardner, J.E., Mohrig, D., and Dufek, J., 2024, Density stratification and buoyancy evolution in pyroclastic density currents: Journal of Geophysical Research: Solid Earth, http://doi.org/10.1029/2024JB029208

152. *Speed, C.M., Sylvester, Z., *Morris, P.D. and Mohrig, D., 2024, The impact of post-cutoff bend curvature on channel kinematics in meandering rivers: An example from the Trinity River, Texas, USA. Geological Society, London, Special Publications, 540, https://doi.org/10.1144/SP540-2023-118

151. *Morris, P.D., Sylvester, Z., Covault, J.A., Mohrig, D., and +Dunlap, D., 2023, Fluvial-style migration controls autogenic aggradation in submarine channels: Joshua Channel, eastern Gulf of Mexico: Geological Society Special Publication 540. https://doi.org/10.1144/SP540-2022-123

2023:

150. *Wilson, K., and Mohrig, D., 2023, Signatures of Pleistocene Marine Transgression Preserved in Lithified Coastal Dune Morphology of The Bahamas: Geosciences, 13, 367. https://doi.org/10.3390/geosciences13120367

149. *Hassenruck-Gudipati, H.J., Passalacqua, P. and Mohrig, D., 2023, Natural levees increase in prevalence in the backwater zone: Coastal Trinity River, Texas, USA: REPLY. Geology, 51(6).

148. **Goudge, T.A., *Swartz, J.M., ++Dong, T.Y., and Mohrig, D., 2023, Characterizing the response of the coastal Rio Grande to upstream damming: Geomorphology, v. 426, 108604.

147. *Cardenas, B. T., Lamb, M. P., Jobe, Z. R., Mohrig, D., and *Swartz, J. M., 2023, Morphodynamic preservation of fluvial channel belts: The Sedimentary Record, 21(1), https://doi.org/10.2110/001c.66285

2022:

146. Kenney, W.F., Shields, M.R., Bianchi, T.S., Kolker, A.S., and David Mohrig, 2022, Excess 210Pb as an indicator of flood-stage sediments in prograding, Wax Lake Delta, USA: Marine Geology, v. 453, https://doi.org/10.1016/j.margeo.2022.106914.

145. Fongngern, R., Chi, W.C., Berndt, C., and Mohrig, D., 2022, Recognition and three-dimensional characteristics of ancient supercritical flow bedforms on a submarine slope: An example from the South China Sea: Sedimentology. doi: 10.1111/sed.13002

144. *Hassenruck-Gudipati, H.J., ^Ellis, T.S., ++Goudge, T.A. and Mohrig, D., 2022, A multi-proxy assessment of terrace formation in the lower Trinity River valley, Texas: Earth Surface Dynamics, v.10, p.635–651, https://doi.org/10.5194/esurf-10-635-2022

143. *Hassenruck-Gudipati, H.J., Passalacqua, P., and Mohrig, D., 2022, Natural levees increase in prevalence in the backwater zone: Coastal Trinity River, Texas, USA: Geology, https://doi.org/10.1130/G50011.1

142. *Morris, P.D., Sylvester, Z., Covault, J.A., and Mohrig, D., 2022, Channel Trajectories Control Deep-Water Stratigraphic Architecture: The Depositional Record, DOI: 10.1002/dep2.189

141. +Rendall, B., *Wilson, K., Kerans, C., Helper, M., and Mohrig, D., 2022, Coriolis effect recorded in Late Pleistocene Marine Isotope Stage 5e Bahamian aeolianites: Geology, https://doi.org/10.1130/G49454.1

140. *Swartz, J.M., *Cardenas, B.T., Mohrig, D., and Passalacqua, P., 2022, From Distributary to Tributary: Formation of Channel Networks Set by Depositional Processes: Nature Geoscience, https://doi.org/10.1038/s41561-022-00900-x

139. +Tull, N., Passalacqua, P., *Hassenruck-Gudipati, H.J., +Rahman, S., +Wright, K., +Hariharan, J. and Mohrig, D., 2022. Bidirectional River-Floodplain Connectivity During Combined Pluvial-Fluvial Events. Water Resources Research, 58(3), e2021WR030492. https://doi.org/10.1029/2021WR030492

2021:

138. Fisher, W.L., Galloway, W.E., Steel, R.J., Olariu, C., Kerans, C., and Mohrig, D., 2021, Deep-water depositional systems supplied by shelf-incising submarine canyons: Recognition and significance in the geologic record: Earth-Science Reviews, 103531. https://doi.org/10.1016/j.earscirev.2021.103531

137. +Hayden, A.T., Lamb, M.P., Myrow, P., Mohrig, D.C., Williams, R.M.E., Cuevas Martínez, J.L., Cardenas, B.T., Findlay, C.P., Ewing, R.C. and McElroy, B.J., 2021. The Oligocene-Miocene Guadalope-Matarranya Fan, Spain, as an Analog for Long-Lived, Ridge-Bearing Megafans on Mars: Journal of Geophysical Research: Planets, p.e2021JE006993.

136. ^Palermo, R., +Piliouras, A., *Swanson, T., Ashton, A., and Mohrig, D., 2021, The effects of storms and a transient sandy veneer on the interannual planform evolution a low-relief coastal cliff and wavecut platform at Sargent Beach, Texas, USA: Earth Surface Dynamics, https://doi.org/10.5194/esurf-2021-29

135. Sylvester, Z., Durkin, P.R., Hubbard, S.M., and Mohrig, D., 2021, Autogenic translation and counter-point-bar deposition in meandering rivers: Geological Society of America Bulletin, https://doi.org/10.1130/B35829.1

134. *Wilson, K., and Mohrig, D., 2021, Modern coastal tempestite deposition by a non-local storm: Swell-generated transport of sand and boulders on Eleuthera, The Bahamas: Sedimentology. doi:10.1111/SED.12842

2020:

133. *Cardenas, B.T., Mohrig, D., **Goudge, T.A., ^Hughes, C.M., Levy, J.S., *Swanson, T., *Mason, J., and ^Zhoa, F., 2020, The anatomy of exhumed river-channel belts: Bedform to belt-scale river kinematics of the Ruby Ranch Member, Cretaceous Cedar Mountain Formation, Utah, USA: Sedimentology, https://doi.org/10.1111/sed.12765

132. *Daniller-Varghese, M.S., Kim, W., and Mohrig, D.C., 2020, The effect of flood intermittency on bifurcations in fluviodeltaic systems: Experiment and theory: Sedimentology, doi.org/10.1111/sed.12732

131. Fernandes, A.M., Abeyta, A., Mahon, R.C., Martindale, R., Bergmann, K.D., Jackson, C., Present, T.M., Reano, D., Swanson, T., Butler, K., Brisson, S., Johnson, C., Mohrig, D., and Blum, M.D., 2020, “Enriching Lives within

Sedimentary Geology": Actionable recommendations for making SEPM a diverse, equitable and inclusive society for all sedimentary geologists: The Sedimentary Record, v. 18 (3), p. 4-12, dio: 10.2110/sedred.2020.3

130. *Fernandes, A.M., Buttles, J., and Mohrig, D., 2020, Flow substrate interactions in aggrading and degrading submarine channels: Journal of Sedimentary Research, v. 90, p. 573-583. DOI: http://dx.doi.org/10.2110/jsr.2020.31

129. *Koo, W.M., Mohrig, D., Buttles, J., **Sturmer, D., Pontén, A., and Hess, T., 2020, Sand-mud couplets deposited by spontaneous remobilization of subaqueous transitional flows: Sedimentology, 67(1), p. 78-95, doi: 10.1111/sed.12625

128. ++Ma, H., Nittrouer, J.A., Wu, B., Lamb, M.P., Zhang, Y., Mohrig, D., Fu, X., Naito, K., Wang, Y., Moodie, A.J., Wang, G., Hu, C., and Parker, G., 2020, Universal relation with regime transition for sediment transport in fine-grained rivers: Proceedings of the National Academy of Sciences, 117(1), p. 171-176, https://doi.org/10.1073/pnas.1911225116

127. *Mason, J., *Cardenas, B.T., +Day, M.D., *Daniller-Varghese, M., +Brothers, S.C., Kocurek, G., and Mohrig, D., 2020, Pattern evolution and interactions in subaqueous dune fields: North Loup River, Nebraska, USA: Journal of Sedimentary Research, v. 90(12), p.1734-1746. doi:10.2110/jsr.2020.066

126. Mohrig, D., 2020, Deep-ocean seafloor islands of plastics: Science, v.368 (6495), p.1055, DOI: 10.1126/science.abc1510

125. *Smith, B.C., Moffett, K.B., and Mohrig, D., 2020, Short-term ecogeomorphic evolution of a fluvial delta from hindcasting intertidal marsh-top elevations (HIME): Remote Sensing, 12, 1517, doi:10.3390/rs12091517

124. *Smith, V., *Mason, J., and Mohrig, D., 2020, Reach-scale changes in channel geometry and dynamics due to the coastal backwater effect: the lower Trinity River, Texas: Earth Surface Processes and Landforms, 45(3), p. 565-573, doi:10.1002/esp.4754.

123. *Swartz, J.M., **Goudge, T.A., and Mohrig, D. C., 2020, Quantifying coastal fluvial morphodynamics over the last 100 years on the lower Rio Grande, USA and Mexico: Journal of Geophysical Research – Earth Surface, v. 125, e2019JF005443. https://doi.org/10.1029/2019JF005443

2019:

122. *Cardenas, B.T., Kocurek, G., Mohrig, D., *Swanson, T., ^Hughes, C.M., and +Brothers, S.C., 2019, Preservation of autogenic processes and allogenic forcings in set-scale aeolian architecture II: The scour-and-fill dominated Jurassic Page Sandstone, Arizona, USA: Journal of Sedimentary Research, 89(8), pp.741-760.

121. *Cardenas, B.T., Swanson, T., Goudge, T.A., Wagner, R.W., and Mohrig, D., 2019, The effect of remote sensing resolution limits on aeolian sandstone measurements and the reconstruction of ancient dune fields on Mars: Numerical experiment using the Page Sandstone, Earth: Journal of Geophysical Research – Planets, doi.org/10.1029/2019JE006191

120. ^Hughes, C.M., *Cardenas, B.T., **Goudge, T.A., and Mohrig, D., 2019, Deltaic deposits indicative of a paleo-coastline at Aeolis Dorsa, Mars: Icarus, 317, p. 442 – 453.

119. *Mason, J., and Mohrig, D., 2019, Differential bank migration and the maintenance of channel width in meandering river bends: Geology, doi.org/10.1130/G46651.1

118. *Mason, J., and Mohrig, D., 2019, Scroll bars are inner bank levees along meandering river bends: Earth Surface Processes and Landforms, doi.org/10.1002/esp.4690

117. ++Shields, M.R., Bianchi, T.S., Kolker, A.S., Kenney, W.F., Mohrig, D., Osborne, T.Z., and Curtis, J.H., 2019, Factors controlling storage, sources, and diagenetic state of organic carbon in a prograding subaerial delta: Wax Lake Delta, Louisiana: Journal of Geophysical Research – Biogeosciences, v. 124, doi: 10.1029/2018JG004683

116. ^Smith, E., *Daniller-Varghese, M.S., Myrow, P.M. and Mohrig, D., 2019, Experimental investigations of combined flow sediment transport. Journal of Sedimentary Research, 89(8), pp.808-814.

115. *Swanson, T., Mohrig, D., Kocurek, G., *Cardenas, B.T., and Wolinsky, M., 2019, Preservation of autogenic processes and allogenic forcings in set-scale aeolian architecture I: Numerical experiments: Journal of Sedimentary Research, 89(8), pp.728-740.

114. **Wagner, R.W., and Mohrig, D., 2019, Flow and Sediment Flux Asymmetry in a Branching Channel Delta: Water Resources Research, DOI: 10.1029/2019WR026050.

113. +Zheng, L., Cardenas, M.B., Wang, L., and Mohrig, D., 2019, Ripple effects: bedform morphodynamics cascading into hyporheic zone biogeochemistry: Water Resources Research, doi: 10.1029/2018WR023517

2018:

112. ++Ayoub, F., Jones, C.E., Lamb, M.P., Holt, B., Shaw, J.B., Mohrig, D., and **Wagner, W., 2018, Inferring surface currents within submerged, vegetated deltaic islands and wetlands from multi-pass airborne SAR: Remote Sensing of Environment, v. 212, p. 148 – 160.

111. *Cardenas, B.T., Mohrig, D., and **Goudge, T.A., 2018, Fluvial stratigraphy of valley fills at Aeolis Dorsa, Mars: Evidence for base-level fluctuations controlled by a downstream water body: Geological Society of America Bulletin, 130 (3-4), 484-498, doi: 10.1130/B31567.1.

110. *Eluwa, A., Mohrig, D., Ogiesoba, O.C., and Ambrose, W.A., 2018, Depositional settings and history of the Lower Miocene Fleming Group, Refugio County, Texas, as defined using seismic geomorphology: Journal of Marine and Petroleum Geology, v. 92, p. 565 – 581, doi.org/10.1016/j.marpetgeo.2017.11.021

109. +Fongngern, R., Olariu, C., Steel, R., Mohrig, D., Hess, T.E., and Krézsek, C., 2018, Subsurface and outcrop characteristics of fluvial-dominate deep lacustrine clinoforms: Sedimentology, 65 (5), 1447-1481, doi: 10.1111/sed.12430

108. **Goudge, T.A., Fassett, C.I., and Mohrig, D., 2018, Incision of paleolake outlet canyons on Mars from overflow flooding: Geology, 47 (1), 7-10.

107. **Goudge, T.A., Mohrig, D., *Cardenas, B.T., ^Hughes, C.M., and Fassett, C.I., 2018, Stratigraphy and paleohydrology of delta channel deposits, Jezero Crater, Mars: Icarus, v. 301, p. 58 – 75, doi: 10.1016/j.icarus.2017.09.034

106. Kocurek, G., Martindale, R.C., +Day, M., **Goudge, T.A., Kerans, C., *Mason, J., *Cardenas, B.T., *Hassenruck-Gudipati, H.J., +Petersen, E.I., Mohrig, D., *Aylward, D.S., ^Hughes, C.M., and ^Nazworth, C.M., 2018, Antecedent aeolian dune topographic control on carbonate and evaporite facies: Middle Jurassic Todilto Member, Wanakah Formation, Ghost Ranch, New Mexico, USA: Sedimentology, doi: 10.1111/sed.12518.

105. *Mason, J., and Mohrig, D., 2018, Using time-lapse lidar to quantify river bend evolution on the meandering coastal Trinity River, Texas, USA: Journal of Geophysical Research – Earth Surface, 123 (5), p. 1133 – 1144, https://doi.org/10.1029/2017JF004492.

104. *McElroy, B., Willenbring, J., and Mohrig, D., 2018, Addressing time-scale – dependent erosion rates from measurement methods with censorship: Geological Society of America Bulletin, 130 (3-4), 381-395, doi: 10.1130/B31644.1.

103. Paola, C., Ganti, V., Mohrig, D., Runkel, A.C., and Straub, K.M., 2018, Time not our time: physical controls on the preservation and measurement of geologic time: Annual Review of Earth and Planetary Sciences, v. 46, p. 409 – 438.

102. +Sendrowski, A., Sadid, K., Meselhe, E., **Wagner, W., Mohrig, D., and Passalacqua, P., 2018, Transfer entropy as a tool for hydrodynamic model validation: Entropy, 20 (1), 58; doi:10.3390/e20010058

101. *Swanson, T., Mohrig, D., Kocurek, G., **Perillo, M., and Venditti, J., 2018, Bedform spurs: a result of a trailing helical vortex wake: Sedimentology, v. 65, p. 191 – 208, doi: 10.1111/sed.12383.

2017:

100. ++Shields, M.R., Bianchi, T.S., Mohrig, D., Hutchings, J., Kenney, W.F., Kolker, A.S., and Curtis, J.H., 2017, Carbon storage in the Mississippi River Delta enhanced by ecosystem engineering: Nature Geoscience, 10 (11), doi: 10.1038/NGEO3044.

99. *Smith, V.B., and Mohrig, D., 2017, Geomorphic signature of a dammed sandy river: The lower Trinity River downstream of Livingston Dam in Texas, USA: Geomorphology, 297, 122 - 136.

98. +Steel, E., Buttles, J., Simms, A.R., Mohrig, D., and Meiburg, E., 2017, The role of buoyancy reversal in turbidite deposition and submarine fan geometry, Geology, 45 (1), 35-38, doi: 10 .1130 /G38446 .1

97. *Swanson, T., Mohrig, D., Kocurek, G., and ++Liang, M., 2017, A surface model for aeolian dune topography: Mathematical Geosciences, 49 (5), 635-655, DOI: 10.1007/s11004-016-9654-x

96. **Wagner, R.W., Lague, D., Mohrig, D., Passalacqua, P., Shaw, J., and Moffett, K., 2017, Elevation change and stability on a prograding delta: Geophysical Research Letters, 44 (4), 1786-1794, doi: 10.1002/2016GL072070.

2016:

95. +Day, M., Anderson, W., Kocurek, G., and Mohrig, D., 2016, Carving intracrater layered deposits with wind on Mars: Geophysical Research Letters: v. 43(6), p. 2473-2479, DOI: 10.1002/2016GL068011

94. **Fernandes, A.M., Tornqvist, T.E., Straub, K.M., and Mohrig D., 2016, Connecting the backwater hydraulics of coastal rivers to fluvio-deltaic sedimentology and stratigraphy: Geology, doi:10.1130/G37965.1

93. Johnson, J.P.L., *Delbecq, K., Kim, W., and Mohrig, D., 2016, Experimental tsunami deposits: Linking hydrodynamics to sediment entrainment, advection lengths and downstream fining: Geomorphology, v. 253, p. 478 – 490.

92. Shaw, J.B., Ayoub, F., Jones, C.E., Lamb, M.P., Holt, B., Wagner, R.W., Coffey, T.S., Chadwick, J.A., and Mohrig, D., 2016, Airborne radar imaging of subaqueous channel evolution in Wax Lake Delta, Louisiana, USA: Geophysical Research Letters, 43, 5035–5042, doi:10.1002/2016GL068770.

91. *Shaw, J.B., Mohrig, D., and **Wagner, R.W., 2016, Flow patterns and morphology of a prograding river delta: Journal of Geophysical Research – Earth Surface, v. 121(2), p. 372-391. doi: 10.1002/2015JF003570

90. *Smith, V., G. Kocurek, D. Mohrig, +S. Christian, ^E. Rhinehart, +A. Pedersen, and M. H. Reiser. 2016. Dune dynamics monitoring protocol for gypsum dune fields in White Sands National Monument, New Mexico: Version 1.0. Natural Resource Report NPS/CHDN/NRR—2016/1201. National Park Service, Fort Collins, Colorado.

89. *Swanson, T., Mohrig, D., and Kocurek, G., 2016, Aeolian dune sediment flux variability over an annual cycle of wind: Sedimentology, v. 63, p. 1753 – 1764, DOI: 10.1111/sed.12287

2015:

88. +Czapiga, M.J., *Smith, V.B., Nittrouer, J.A., Mohrig, D., and Parker, G., 2015, Internal connectivity of meandering rivers: statistical generalization of channel hydraulic geometry: Water Resources Research, v. 51, doi:10.1002/2014WR016133.

87. Kadlec, J., Kocurek. G., Mohrig, D., Shinde, D.P., Murari, M.K., Varma, V., Stehlik, F., Benes, V., Singhvi, A.K., 2015, Response of fluvial, aeolian, and lacustrine systems to late Pleistocene to Holocene climate change, Lower Moravian Basin, Czech Republic: Geomorphology, v. 232, p. 193 – 208.

86. +Pedersen, A., Kocurek, G., Mohrig, D., and *Smith, V., 2015, Dune behavior in a multi-directional wind regime: White Sands Dune Field, New Mexico: Earth Surface Processes and Landforms, v. 40, p. 925 – 941.

85. **Perillo, M.M., *Minton, B., Buttles, J., and Mohrig, D., 2015, Acoustic imaging of experimental subaqueous sediment-laden flows and their deposits: Journal of Sedimentary Research, v. 85, p. 1 – 5.

84. *Shaw, J., *You, Y., Mohrig, D., and Kocurek, G., 2015, Tracking hurricane-generated storm surge with washover fan stratigraphy: Geology, v. 43, no. 2, p. 127 – 130.

2014:

83. *Armstrong, C., Mohrig, D., Hess, T., *George, T., and Straub, K.M., 2014, Influence of growth faults on coastal fluvial systems: Examples from the late Miocene to Recent Mississippi River Delta, Sedimentary Geology, v. 301, p. 120-132, http://dx.doi.org/10.1016/j.sedgeo.2013.06.010

82. +Baitis E., Kocurek, G., *Smith, V., Mohrig, D., Ewing, R.C., and *Peyret, A. –P.B., 2014, Definition and origin of the dune-field pattern at White Sands, New Mexico: Aeolian Research, v. 15, p. 269-287, http://dx.doi.org/10.1016/j.aeolia.2014.06.004

81. Kim, W., +Petter, A., Straub, K., & Mohrig, D., 2014, Investigating the autogenic process response to allogenic forcing: experimental geomorphology and stratigraphy. *From Depositional Systems to Sedimentary Successions on the Norwegian Continental Margin* (IAS SP 46), 46, p. 127-138.

80. *Lynds, R., Mohrig, D., +Hajek, E., and Heller, P., 2014, Paleoslope reconstruction in sandy suspended-load dominant rivers: Journal of Sedimentary Research, v. 84, p. 825-836, DOI: http://dx.doi.org/10.2110/jsr.2014.60

79. +Piliouras, A., Kim, W., Kocurek, G.A., Mohrig, D., +Kopp, J., 2014, Sand on salt: Controls on dune subsidence and determining salt substrate thickness: Lithosphere, V. 6 (3), p. 195-199.

78. *Shaw, J.B., and Mohrig, D., 2014, The importance of erosion in distributary channel network growth, Wax Lake Delta, Louisiana, USA: Geology, v. 42 (1), p. 31-34, doi:10.1130/G34751.1

77. *You, Y., Flemings, P., and Mohrig, D., 2014, Mechanics of dual-mode dilative failure in subaqueous sediment deposits: Earth and Planetary Science Letters, v. 397, p. 10–18.

76. *You, Y., Flemings, P., Mohrig, D., and Germaine, J., 2014, How heterogeneity in the shear dilation of a deposit controls the mechanics of breaching slope failure: Journal of Geophysical Research – Earth Surface, v. 119, doi:10.1002/2013JF002983.

2013:

75. +Dakin, N., Pickering, K.T., Mohrig, D., and Bayliss, N.J., 2013, Channel-like features created by erosive submarine debris flows: field evidence from the Middle Eocene Ainsa Basin, Spanish Pyrenees: Marine and Petroleum Geology, v.41, p.62-71.

74. **Kenney, M.A., Hobbs, B.F., Mohrig, D., Huang, H., *Nittrouer, J.A., Kim, W., Parker, G., 2013, Cost analysis of water and sediment diversions to optimize land building in the Mississippi River delta: Water Resources Research, v. 49 (6), p. 3388-3405, DOI: 10.1002/wrcr.20139.

73. +Petter, A., Steel, R., Mohrig, D., Kim, W., and Carvajal, C., 2013, Estimation of the paleoflux of terrestrial-derived solids across ancient basin margins using the stratigraphic record: Geological Society of America Bulletin, v. 125, n. 3-4, p. 578-593, doi: 10.1130/B30603.1.

72. *Shaw, J.B., Mohrig, D., and *Whitman, S.K., 2013, The morphology and evolution of channels on the Wax Lake Delta, Louisiana, USA: Journal of Geophysical Research – Earth Surface, v. 118, p. 1562 – 1584, DOI: 10.1002/jgrf.20123.

2012:

71. +Eastwood, E.N., Kocurek, G., Mohrig, D. and *Swanson, T., 2012, Methodology for reconstructing wind direction, wind speed, and duration of wind events from aeolian cross-strata: Journal of Geophysical Research – Earth Surface, v. 117 (F3), doi:10.1029/2012JF002368

70. Kocurek, G., D. Mohrig, +E. Baitis, R. C. Ewing, *V. Smith, and *A. Peyret. 2012. LiDAR surveys of gypsum dune fields in White Sands National Monument, New Mexico. Natural Resource Technical Report NPS/CHDN/NRTR—2012/558. National Park Service, Fort Collins, Colorado.

69. **Lamb, M.P., *Nittrouer, J., Mohrig, D. and *Shaw, J., 2012, Backwater and river plume controls on scour upstream of river mouths: Implications for fluvio-deltaic morphodynamics: Journal of Geophysical Research – Earth Surface, v. 117, F01002, doi:10.1029/2011JF002079.

68. *Nittrouer, J.A., *Shaw, J., **Lamb, M.P., and Mohrig, D., 2012, Spatial and temporal trends for water-flow velocity and bed material sediment transport in the lower Mississippi River: Geological Society of America Bulletin, v. 124, p. 400-414, doi: 10.1130/B30497.1.

67. Prather, B.E., Deptuck, M.E., Mohrig, D., Van Hoorn, B., and Wynn, R.B., 2012, Application of the principles of seismic geomorphology to continental-slope and base-of-slope systems: Case studies from seafloor and near-seafloor analogues, *in* Case Studies from Seafloor and Near-Seafloor Analogues: SEPM Special Publication No. 99, ISBN 978-1-56576-304-3, p. 5-9.

66. [+]Sawyer, D.E., Flemings, P.B., Buttles, J., and Mohrig, D., 2012, Mudflow transport behavior and deposit morphology: role of shear stress to yield strength ratio in subaqueous experiments: Marine Geology, 307–310, p. 28–39, doi:10.1016/j.margeo.2012.01.009.

65. *Straub, K.M., Mohrig, D., and Pirmez, C., 2012, Architecture of an aggradational tributary submarine-channel network on the continental slope, offshore Brunei Darussalam, in Case Studies from Seafloor and Near-Seafloor Analogues: SEPM Special Publication No. 99, ISBN 978-1-56576-304-3, p. 13–30.

64. *You, Y., Flemings, P., and Mohrig, D., 2012, Dynamics of dilative slope failure: Geology, v. 40, no. 7, p. 663-666, doi: 10.1130/G32855.1

2011:

63. Cantero, M.I., Cantelli, A., Pirmez, C., Balachandar, S., Mohrig, D., Hickson, T.A., Yeh, T-H, Naruse, H., and Parker, G., 2011, Emplacement of massive turbidites linked to extinction of turbulence in turbidity currents: Nature Geoscience, v. 5, p. 42 – 45, DOI:10.1038/NGEO1320.

62. **Edmonds, D., *Shaw, J., and Mohrig, D., 2011, Topset-dominated deltas: a new model for river delta stratigraphy: Geology, v. 39, p. 1175-1178, doi:10.1130/G32358.1.

61. *Nittrouer, J. A., Mohrig, D., Allison, M. A., *Peyret, A.-P., 2011, The Lowermost Mississippi River: A Mixed Bedrock-Alluvial Channel: Sedimentology, v. 58, p. 1914-1934, doi:10.1111/j.1365-3091.2011.01245.x.

60. *Nittrouer, J.A., Mohrig, D., and Allison, M.A., 2011, Punctuated sand transport in the lowermost Mississippi River: Journal of Geophysical Research-Earth Surface, v. 116, F04025, doi:10.1029/2011JF002026.

59. Mohrig, D., 2011, Quantiative stratigraphy: GeoPrisms Newsletter No. 26, Spring 2011, p. 21.

58. Paola, C., Twilley, R.R., [++]Edmonds, D.A., Kim, W., Mohrig, D., Parker, G., [++]Viparelli, E., and Voller, V.R., 2011, Natural processes in delta restoration: Application to the Mississippi delta: Annual Review of Marine Science, v. 3, p. 67-91.

57. *Straub, K.M., Mohrig, D., Buttles, J., *McElroy, B., and Pirmez, C., 2011, Quantifying the influence of channel sinuosity on the depositional mechanics of channelized turbidity currents: A laboratory study: Marine and Petroleum Geology, v. 28, p. 744-760, doi: 10.1016/j.marpetgeo.2010.05.014.

56. [++]Viparelli, E., *Shaw, J., [+]Bevington, A., Meselhe, E., [+]Holm, G.O., Mohrig, D., Twilley, R., and Parker, G., 2011, Inundation model as an aid for predicting ecological succession on newly-created deltaic land associated with Mississippi River diversions: application to the Wax Lake Delta, in Beighley, R.E., and Mark W. Killgore, M.W. (eds.), World Environmental and Water Resources Congress 2011: Bearing Knowledge for Sustainability, American Society of Civil Engineers, ISBN 978-0-7844-1173-5, http://dx.doi.org/10.1061/41173(414)243, p.2340-2349.

2010:

55. [+]Hajek, E., Huzurbazar, S., Mohrig, D., [+]Lynds, R., and Heller, P., 2010, Statistical characterization of grain-size distributions in sandy fluvial systems: Journal of Sedimentary Research, v. 80, p. 184-192, DOI: 10.2110/jsr.2010.020.

54. Kocurek, G., [+]Ewing, R., and Mohrig, D., 2010, How do bedform patterns arise? New views on the role of bedform interactions within a set of boundary conditions: Earth Surface Processes and Landforms, v. 35, p. 51-63, DOI: 10.1002/esp.1913.

53. **Lamb, M.P., *McElroy, B., *Kopriva, B., *Shaw, J., and Mohrig, D., 2010, Linking river-flood dynamics to hyperpycnal-plume deposits: Experiments, theory and geological implications: Geological Society of America Bulletin, v. 122, p. 1389-1400, DOI: 10.1130/B30125.1.

2009:

52. [+]Abrams, D.M., [++]Lobkovsky, A.E., [+]Petroff, A.P., *Straub, K.M., *McElroy, B., Mohrig, D.C., Kudrolli, A., and Rothman, D.H., 2009, Growth laws for channel networks incised by groundwater flow: Nature Geoscience, v. 2 (3), p. 193-196, DOI: 10.1038/NGEO432.

51. Kim, W., Mohrig, D., Twilley, R., Paola, C., and Parker, G., 2009, Is it feasible to build new land in the Mississippi River delta?: EOS, Transactions, American Geophysical Union. v. 90, n. 42, p. 373–384.

50. **Lamb, M.P., and Mohrig, D., 2009, Do hyperpycnal-flow deposits record river-flood dynamics?: Geology, v. 37; no. 12; p. 1067–1070; doi: 10.1130/G30286A.1.

49. *McElroy, B.D., and Mohrig, D., 2009, Nature of deformation of sandy bedforms: Journal of Geophysical Research-Earth Surface, v.114, F00A04, doi:10.1029/2008JF001220.

48. +Metz, J.M., Grotzinger, J.P., Mohrig, D., Milliken, R., Prather, B., Pirmez, C., McEwen, A.S., and Weitz C.M., 2009, Sublacustrine depositional fans in southwest Melas Chasma: Journal of Geophysical Research-Planets, v. 114, E10002, doi:10.1029/2009JE003365.

47. Paola, C., Straub, K.M., Mohrig, D., and Reinhardt, L., 2009, The "unreasonable effectiveness" of stratigraphic and geomorphic experiments: Earth Science Reviews, v. 97, p. 1-43, doi:10.1016/j.earscirev.2009.05.003

46. *Straub, K.M., and Mohrig, D., 2009, Constructional canyons built by sheet-like turbidity currents: Observations from offshore Brunei Darussalam: Journal of Sedimentary Research, v.79, p. 24-39, DOI:10.2110/jsr2009.006.

45. *Straub, K.M., Paola, C., Mohrig, D., Wolinsky, M.A., and *George, T., 2009, Compensational stacking of channelized sedimentary deposits: Journal of Sedimentary Research, v.79, p. 673-688, DOI:10.2110/jsr2009.070.

2008:

44. *McElroy, B., and Mohrig, D., 2008, Correlation decay and dynamic equilibria in sandy transport systems, *in* Dohmen-Janssen C.M., and Hulscher S.J.M.H. (eds.), River, Coastal and Estuarine Morphodynamics: RCEM 2007, Volumes 1 & 2, Taylor & Francis, London, ISBN 9780415453639, p. 891-896.

43. *Straub, K.M., and Mohrig, D., 2008, Quantifying the morphology and growth of levees in aggrading submarine channels: Journal of Geophysical Research – Earth Surface, v. 113 (F3), F03012, doi: 10.1029/2007JF000896.

42. *Straub, K.M., Mohrig, D., Buttles, J., *McElroy, B., and Pirmez, C., 2008, Interactions between turbidity currents and topography in aggrading sinuous submarine channels: A laboratory study: Geological Society of America Bulletin, v. 120 (3-4), p. 368–385; doi: 10.1130/B25983.1.

41. +Woodruff, J.D., Donnelly, J.P., Mohrig, D., Geyer, W.R., 2008, Reconstructing relative flooding intensities responsible for hurricane-induced deposits from Laguna Playa Grande, Vieques, Puerto Rico: Geology, v. 36 (5), p. 391-394, dio: 10.1130/G24731A.1.

2007:

40. Mohrig, D., and Buttles, J., 2007, Deep turbidity currents in shallow channels: Geology, v. 35, p. 155-158, doi: 10.1130/G22716A..

39. *Jerolmack, D.J., and Mohrig, D., 2007, Conditions for branching in depositional rivers: Geology, v. 35; no. 5; p. 463–466, doi: 10.1130/G23308A.

38. ++Lobkovsky, A. E., +Smith, B.E., Kudrolli, A., Mohrig, D.C., and Rothman, D.H., 2007, Erosive dynamics of channels incised by subsurface water flow, Journal of Geophysical Research-Earth Surface, 112, F03S12, doi:10.1029/2006JF000517.

37. *Lyons, W., Swart, R., and Mohrig, D., 2007, Deepwater lobes of the Zerrissene Turbidite System, Namibia, *in* T.H. Nilsen, R.D. Shew, G.S. Steffens, and J.R.J. Studlick (eds.), *Atlas of Deep-Water Outcrops*: American Association of Petroleum Geologists Studies in Geology #56, p. 235-237.

36. Parsons, J.D., Friedrichs, C.T., Traykovski, P., Mohrig, D., Imran, J., Syvitski, J.P.M., Parker, G., Puig P., Buttles, J.L., and García, M.H., 2007, Chapter 7: The mechanics of marine sediment gravity flows, *in* C. Nittrouer, J. Austin, M. Field, M. Steckler, J. Syvitski, P. Wiberg, Editors: *Continental Margin Sedimentation: from Sediment Transport to Sequence Stratigraphy*, Int. Assoc. Sedimentol., Spec. Publ. 37, Blackwell Publishing, Oxford, UK, p.275-338.

35. *Straub, K.M., *Jerolmack, D.J., Mohrig, D., and Rothman, D.H., 2007, Channel network scaling laws in submarine basins: Geophysical Research Letters, v. 34, L12613, doi:10.1029/2007GL030089.

34. Törnqvist, T.E., Paola, C., Parker, G., Liu, K., Mohrig, D., Holbrook, J.M., and Twilley, R.R., 2007, Comment on "Wetland Sedimentation from Hurricanes Katrina and Rita": Science, v. 316, 201b, doi:10.1126/science.1136780.

2006:

33. *Jerolmack, D.J., Mohrig, D., Grotzinger, J.P., +Fike, D.A., and +Watters, W.A., 2006, Spatial grain size sorting in eolian ripples and estimation of wind conditions on planetary surfaces: Application to Meridiani Planuum, Mars: Journal of Geophysical Research, v. 111, E03S90, doi:10.1029/2005JE002544.

32. Paola, C., Foufoula-Georgiou, E., Dietrich, W.E., Hondzo, M., Mohrig, D., Parker, G., Power, M.E., Rodriguez-Iturbe, I., Voller, V., and Wilcock, P., 2006, Toward a unified science of the Earth's surface: Opportunities for synthesis among hydrology, geomorphology, geochemistry and ecology: Water Resources Research, v. 42, W03S10, doi:10.1029/2005WR004336.

31. Porter, M. L., A. R. G. Sprague, M. D. Sullivan, D. C. Jennette, R. T. Beaubouef, T. R. Garfield, C. Rossen, D. K. Sickafoose, G. N. Jensen, S. J. Friedmann, and D. C. Mohrig, 2006, Stratigraphic organization and predictability of mixed coarse- and fine-grained lithofacies successions in a lower Miocene deep-water slope-channel system, Angola Block 15, *in* P. M. Harris and L. J. Weber (eds.), Giant hydrocarbon reservoirs of the world: From Rocks to reservoir characterization and modeling: AAPG Memoir 88/SEPM Special Publication, p. 281-305.

2005:

30. Mohrig, D., *Straub, K.M., Buttles, J., and Pirmez, C., 2005, Controls on geometry and composition of a levee built by turbidity currents in a straight laboratory channel, *in* Parker, G., and Garcia, M.H. (eds.), River, Coastal and Estuarine Morphodynamics: RCEM 2005, Taylor & Francis/Balkema, London, ISBN 0415392705, p. 579-584.

29. *Jerolmack, D.J., and Mohrig, D., 2005, Frozen dynamics of migrating bedforms: Geology, v.33, p. 57-60.

28. *Jerolmack, D., and Mohrig, D., 2005, Interactions between bedforms: topography, turbulence and transport: Journal of Geophysical Research, v. 110, F02014, doi:10.1029/2004JF000126.

27. *Jerolmack D.J., and Mohrig, D., 2005, Formation of Precambrian sediment ripples: Nature, Brief Communications Arising from P.A. Allen & P.F. Hoffman *Nature* 433, 123-127 (2005), v. 436, 21July2005, E1, doi:10.1038/nature04025.

26. *Jerolmack, D.J., and Mohrig, D., 2005, A unified model for subaqueous bedform dynamics: Water Resources Research, v. 41, W12421, doi:10.1029/2005WR004329.

25. *Jerolmack, D.J., Mohrig, D., and *McElroy, B., 2005, A unified description of ripples and dunes in rivers, *in* Parker, G., and Garcia, M.H. (eds.), River, Coastal and Estuarine Morphodynamics: RCEM 2005, Taylor & Francis/Balkema, London, ISBN 0415392705, p. 843-851.

24. van der Mark, C.F., Blom, A., Hulscher, S.J.M.H., Leclair, S.F., and Mohrig, D., 2005, On modeling the variability of bedform dimensions, *in* Parker, G., and Garcia, M.H. (eds.), River, Coastal and Estuarine Morphodynamics: RCEM 2005, Taylor & Francis/Balkema, London, ISBN 0415392705, p. 831-841.

2004:

23. *Jerolmack, D., and Mohrig, D., 2004, Modeling bedform evolution as an interface problem: comparing bedform kinematics generated by advection-diffusion equations against reality, *in* Hulscher, S., Garlan, T., and Idier, D. (Eds.): Marine Sandwaves and River Dune Dynamics 2, International Workshop, University of Twente, The Netherlands, p. 118-124.

22. *Jerolmack, D.J., Mohrig, D., Zuber, M.T., and ++Byrne, S., 2004, A minimum time for the formation of Holden Northeast fan, Mars: Geophysical Research Letters, v. 31, L21701, doi:10.1029/2004GL021326.

21. +Das, H.S., Imran, J., Pirmez, C., and Mohrig, D., 2004, Numerical modeling of flow and bed evolution in meandering submarine channels: Journal of Geophysical Research, v. 109, C10009, doi:10.1029/2002JC001518.

2003:

20. Mohrig, D., and Marr, J.G., 2003, Constraining the efficiency of turbidity current generation from submarine debris flows and slides using laboratory experiments: Marine and Petroleum Geology, v. 20, p. 883-899.

19. Abreu, V., Sullivan, M, Pirmez, C., and Mohrig, D., 2003, Lateral accretion packages (LAPs): an important reservoir element in deep water sinuous channels: Marine and Petroleum Geology, v. 20, p. 631-648.

18. Harbitz, C.B., Parker, G., Elverhøi, A., Marr, J.G., Mohrig, D., and Harff, P., 2003, Hydroplaning of subaqueous debris flows and glide blocks: analytical solutions and discussion: Journal of Geophysical Research, v. 108, B7, doi:10.1029/2001JB001454.

2001:

17. Paola, C., Mullin, J., Ellis, C., Mohrig, D.C., Swenson, J.B., Parker, G., Hickson, T., Heller, P.L., Pratson, L., Syvitski, J., Sheets, B., and Strong, N, 2001, Experimental stratigraphy: GSATODAY, v.11, n.7, p.4-9.

2000:

16. Mohrig, D., Heller, P.L., Paola, C., Lyons, W.J., 2000, Interpreting avulsion process from ancient alluvial sequences: Guadalope-Matarranya system, northern Spain and Wasatch Formation, western Colorado: Geological Society of America Bulletin, v. 112, p. 1787-1803.

15. Campion, K.M., Sprague, A.R., Mohrig, D., Lovell, R.W., Drzewiecki, P.A., Sullivan, M.D., Ardill, J.A., Jensen, G.N., Sickafoose, D.K., 2000, Outcrop expression of confined channel complexes, *in* P. Weimer et al., editors, Deep-Water Reservoirs of the World: SEPM (Society for Sedimentary Geology), Gulf Coast Section, Houston, TX, p. 127-150.

14. Elverhoi, A., Harbitz, C.B., Dimakis, P., Mohrig, D., Marr, J., and Parker, G., 2000, On the dynamics of subaqueous debris flows: Oceanography, v. 13, p.109-117.

13. Jennette, D.C., Garfield, T.R., Mohrig, D.C., and Cayley, G.T., 2000, The interaction of shelf accommodation, sediment supply and sea level in controlling facies, architecture and sequence stacking patterns of the Tay and Forties/Sele basin-floor fans, central North Sea, *in* P. Weimer et al., editors, Deep-Water Reservoirs of the World: SEPM (Society for Sedimentary Geology), Gulf Coast Section, Houston, TX, p. 402-421.

12. Pirmez, C., Beaubouef, R.T., Friedmann, S.J., and Mohrig, D.C., 2000, Equilibrium profile and baselevel in submarine channels: Examples from Late Pleistocene systems and implications for the architecture of deepwater reservoirs, *in* P. Weimer et al., editors, Deep-Water Reservoirs of the World: SEPM (Society for Sedimentary Geology), Gulf Coast Section, Houston, TX, p. 782-805.

1999:

11. Mohrig, D., Elverhøi, A., Parker, G., 1999, Experiments on the relative mobility of muddy subaqueous and subaerial debris flows, and their capacity to remobilize antecedent deposits: Marine Geology, v. 154, p. 117-129.

10. Beaubouef, R.T., Rossen, C., Zelt, F.B., Sullivan, M.D., Mohrig, D.C., Jennette, D.C., 1999, Deep-water sandstones, Brushy Canyon Formation, west Texas; field guide for AAPG Hedberg Field Research Conference: AAPG Continuing Education Course Note Series #40, The American Association of Petroleum Geologists, Tulsa, OK, 50 p.

9. Paola, C., Parker, G., Mohrig, D.C., and Whipple, K.X., 1999, The influence of transport fluctuations on spatially averaged topography on a sandy, braided fluvial fan, *in* Harbaugh, J.W., Watney, W.L., Rankey, E.C., Slingerland, R., and Goldstein, R.H., eds., Numerical experiments in stratigraphy; recent advances in stratigraphic and sedimentologic computer simulations: SEPM Special Publication 62, Society for Sedimentary Geology (SEPM), Tulsa, OK, p. 211-218.

1998:

8. Mohrig, D., Whipple, K.X., Hondzo, M., Ellis, C., and Parker, G., 1998, Hydroplaning of subaqueous debris flows: Geological Society of America Bulletin, v.110, p. 387-394.

7. Parker, G., Paola, C., Whipple, K.X., and Mohrig, D., 1998, Alluvial fans formed by channelized fluvial and sheet flow. 1: Theory: Journal of Hydraulic Engineering, v. 124, p. 985-995.

6. Parker, G., Paola, C., Whipple, K.X., and Mohrig, D., 1998, Alluvial fans formed by channelized fluvial and sheet flow. 2: Application: Journal of Hydraulic Engineering, v. 124, p. 996-1004.

5. Whipple, K.X., Parker, G., Paola, C., and Mohrig, D., 1998, Channel dynamics, sediment transport, and the slope of alluvial fans: Experimental study: The Journal of Geology, v. 106, p. 677-693.

1996:

4. Mohrig, D., and Smith, J.D., 1996, Predicting the migration rates of subaqueous dunes: Water Resources Research, v. 32, p. 3207-3217.

3. Paola, C., and Mohrig, D., 1996, Palaeohydraulics revisited: palaeoslope estimation in coarse-grained braided rivers: Basin Research, v. 8, p. 243-254.

2. Pratson, L.F., Lee, H.J., Parker, G., Garcia, M.H., Coakley, B.J., Mohrig, D., Locat, J., Mello, U., Parsons, J.D., Choi, S., and Isreal, K., 1996, Studies of mass-movement processes on submarine slopes: Oceanography, v. 9, p. 168-172.

1985:

1. Baird, A.K., Mohrig D.C., and Welday, E.E., 1985, Vapor deposition in basaltic stalactites, Kilauea, Hawaii: Lithos, v. 18, p. 151-160.

BOOK

2012:

Application of the principles of seismic geomorphology to continental-slope and base-of-slope systems: Case studies from seafloor and near-seafloor analogues: Prather, B.E., Deptuck, M.E., Mohrig, D., Van Hoorn, B., and Wynn, R.B., (eds.) 2012, SEPM Special Publication No. 99, ISBN 978-1-56576-304-3.

INVITED SCHOLARLY PRESENTATIONS, 2001-present

- Invited Plenary Lecture, June 15, 2026. *Flow of Sediment & Coastal-Zone Response in Our Changing Environment: 20 Years of Measuring Landscape Construction & Destruction*. SEPM International Sedimentary Geosciences Congress II, Colorado School of Mines, Golden, Colorado, USA.
- Invited Speaker, April 23, 2026, *The Flow of Sediment & Coastal Zone Response in Our Changing Environment: 20 Years of Measuring Landscape Construction & Destruction*. DeFord Seminar Series, Department of Earth & Planetary Sciences, The University of Texas at Austin, Austin, TX.
- Invited Speaker, April 14, 2026, *Construction and Destruction of Coastal Zones in Our Changing Environment*. EMSE 6290, School of Engineering and Applied Sciences, The George Washington University. Washington, D.C.
- Invited Speaker, April 2, 2026, *Construction and Destruction of Coastal Zones in Our Changing Environment*. SEOE Seminar Series, School of the Earth, Ocean & Environment, University of South Carolina, Columbia, S.C.
- Invited Speaker, April 1, 2026*, Construction and Destruction of Coastal Zones in Our Changing Environment*. Earth & Environmental Sciences, University of West Florida, Pensacola, FL.
- Invited Speaker, March 27, 2026, *Rio Grande: Why is the other great riverine-to-submarine transport system in the Gulf basin so different than the Mississippi?* The School of Earth, Environmental, & Marine Sciences Seminar Series, The University of Texas Rio Grande Valley, Edinburg, TX.
- Invited Speaker, March 13, 2026, *Rio Grande: Why is the other great riverine-to-submarine transport system in the Gulf basin so different than the Mississippi?* The Department of Earth and Atmospheric Sciences Seminar Series, University of Houston, Houston, TX.
- Invited Speaker, November 14, 2025, *Construction and Destruction of Coastal Zones in Our Changing Environment*. Department of Earth and Ocean Sciences Seminar Series, University of North Carolina – Wilmington.
- Invited Speaker, September 12, 2025, *Construction and Destruction of Coastal Zones in Our Changing Environment*. Bureau Seminar Series, Bureau of Economic Geology, The University of Texas at Austin, Austin, TX.
- Invited Speaker, November 11, 2024, *Morphodynamics of deformable planetary surfaces: Examples from big & small salt basins on Earth*. Division of Geological and Planetary Sciences Seminar, Caltech, Pasadena, CA.
- Invited Keynote, September 10, 2024, *Sediment-Gravity Flows & Morphodynamics of Continental Margins with Deformable Substratum*. Particle Gravity Currents Conference 2024, Hull, UK.
- Invited Speaker, February 9, 2024, *The Roles of Channel Networks & Hurricane Outwash in Construction and Destruction of Coastal Zones*. Dept. of Geosciences Lecture Series, Virginia Tech, Blacksburg, VA.

- Invited Speaker, December 5, 2023, *Connecting deep-marine stratigraphy to seascape morphodynamics*: 2023 Perkins-Rosen GCSSEPM Research Conference, Houston, TX.
- Invited Speaker, October 27, 2023, *The Rio Grande: Why Is the Other Great Riverine-to-Submarine Transport System in The Gulf of Mexico Basin So Different Than the Mississippi?* Dept. of Geology & Geophysics Lecture Series, LSU, Baton Rouge, LA.
- Invited Speaker, September 1, 2022, *The Roles of Channel Networks & Hurricane Ebb Surge in Construction and Destruction of Coastal Zones*: Department of Geology Colloquium, University of Illinois Urbana-Champaign.
- Invited Speaker, February 25, 2022, *The Roles of Channel Networks & Storm-Surge Ebb Flows in Construction and Destruction of Coastal Zones*: SEOE Seminar Series, School of the Earth, Ocean & Environment, University of South Carolina, Columbia, SC.
- Invited Speaker, January17, 2020, *Construction and Destruction of Coastal Zones: The Roles of Channel Networks in Building & Storm-Surge Ebb in Eroding*: McWilliams Seminar Series, Dept. of Earth & Environmental Sciences, Tulane University, New Orleans, LA.
- Invited Speaker, November 9, 2018, *Building Submarine Landscapes: From Channels and Slopes to Fans and Lobes*: Geoscience Colloquium, Dept. of Earth and Environmental Science, University of Pennsylvania, Philadelphia, PA.
- Invited Speaker, September 4, 2018, *Monitoring Our Environment: More data, New Tools, and Better Predictions*: Masri Institute Inaugural Symposium on Energy, Natural Resources & the Environment, American University of Beirut, Beirut, Lebanon.
- Invited Speaker, April 18, 2018, *Exploring the Role of Extreme Events on Rivers and Coastlines*: The Munib and Angela Masri Institute of Energy and Natural Resources, American University of Beirut, Beirut, Lebanon.
- Invited Speaker, April 18, 2018, *Earth in 2100: Water, Energy, Land Use, and Climate*: The Munib and Angela Masri Institute of Energy and Natural Resources, American University of Beirut, Beirut, Lebanon.
- Invited Speaker, February 27, 2018, *Building Submarine Landscapes: From Channels and Slopes to Fans and Lobes*, G.D. Klein Lecture in Clastic Sedimentology, Dept. of Geology, University of Kansas, Lawrence, KS.
- Invited Speaker, December 3, 2017, *Rapid evaluation of coastal change in Texas following Hurricane Harvey*: Council of Scientific Society Presidents Semi-Annual Meeting, Washington D.C.
- Invited Speaker, October 22, 2017, *Rio Grande shelf-edge delta and submarine slope system, offshore Texas, USA: Tarantian – Early Holocene sedimentation overwhelms tectonics*: presented at Geological Society of America 129th Annual Meeting, doi: 10.1130/abs/2017AM-302719, Seattle, WA.
- Invited Speaker, April 3, 2017, Dept. of Earth & Atmospheric Sciences, Indiana University Bloomington, Departmental Colloquium, *Building submarine landscapes: From Channels and slopes to fans and lobes*, Bloomington, IN.
- Invited Speaker, 12 – 16 December, 2016, *How Connecting Sediment Transport Between Environments Solves First-Order Questions Regarding Construction of the Land- and Seascape Recorded by the Permian Brushy Canyon Fm., West Texas, USA*: Abstract EP41E-07 presented at AGU 2016 Fall Meeting, San Francisco, CA.
- Invited Speaker, October 13 – 16, 2016, *Connecting rivers and deltas to the production of sediment-gravity flows that construct the continental slope and its submarine channels*: International Workshop on the Source-to-Sink Systems Concept and its Application to Cooperative Studies of the East China Sea, Tongji University, Shanghai, China.
- Invited Speaker, October 13 – 16, 2016, *Building coastlines: linking studies of modern and ancient coastal rivers – deltas – shorelines to predict system-wide response to environmental change*: International Workshop on the Source-to-Sink Systems Concept and its Application to Cooperative Studies of the East China Sea, Tongji University, Shanghai, China.
- Invited Speaker, May 23 – 25, 2016, *Measuring the spatial change in dune fields that build river bars and its implications for producing sets of dune cross-strata: North Loup River, Nebraska, USA*: 32th IAS Meeting of Sedimentology, Marrakech, Morocco.
- Invited Speaker, 14 – 18 Dec., 2015, *Spatial change in the geometry and kinematics of the Trinity River, TX, USA: Defining the morphodynamics of the fluvial coastal zone*, Abstract EP53D-01 presented at 2015 Fall Meeting, AGU, San Francisco, CA.

- Invited Speaker, December 3, 2015, Dept. of Geological Sciences, Univ. of Florida, Departmental Seminar Series, *Connecting wetlands to channels and channels to wetlands: A systems approach to the evolution of deltaic coastal zones*
- Invited Speaker, 15 – 19 Dec., 2014, *Monitoring the exchanges of water, solids, and solutes between channels and islands of Wax Lake Delta, Louisiana: Key to defining the resiliency of this coastal environment*, Abstract GC23G-01 presented at 2014 Fall Meeting, AGU, San Francisco, CA.
- Invited Speaker, July 21 – 25, 2014, *Connecting bathymetry, the flow field, and bathymetric evolution on the Wax Lake Delta, coastal Louisiana, USA I*: Deltas – 2014: Genesis, Dynamics, Modelling and Sustainable Development International Conference, Istomino, Republic of Buryatia, Russian Federation.
- Keynote lecture, June 12, 2014, *Connecting rivers and deltas to hyperpycnal-flow deposits and turbidites using laboratory, numerical, and field studies*: Central European Meeting of Sedimentary Geology, Olomouc, Czech Republic, June 9 – 13, 2014.
- Invited Speaker, November 22, 2013, Dept. Seminar Series, Dept. of Geosciences, Univ. of Texas - Dallas, *Building Coastlines: Linking Studies from Modern & Ancient Depositional Systems to Predict Response to Environmental Change*
- Invited Speaker, October 18, 2013, Dept. of Geology Colloquium, Univ. of Illinois – Urbana-Champaign, *Building Landscapes: Comparing Transport by Channels on the Coastal Plain, in the Deep Ocean, and on Other Planets*
- Invited Speaker, September 2013, 30th IAS Meeting of Sedimentology, *Beds, bars, bends, banks and basins: Construction of the seascape and deep-marine strata by turbidity currents*, Manchester, UK.
- Invited Speaker, April 2013, Joint Penrose/Chapman Conference on Coastal Processes and Environments Under Sea-Level Rise and Changing Climate: Science to Inform Management, *Role of changing sediment supply and transport in building deltaic coastlines*
- Invited Speaker, March 2013, Austin Geological Society, "*Experimental Stratigraphy and Geomorphology at UT-Austin"*
- Invited Speaker, October 2012, Departmental Seminar Series, Department of Geology, University of California – Davis, *Building Coastlines: Linking Studies from Modern and Ancient Depositional Environments to Predict Response to Environmental Change*
- Invited Speaker, February 2012, Current Research in Earth Science Seminar, Earth Science Department, Rice University, *Building Coastlines: Linking Studies from Modern and Ancient Depositional Environments to Predict Response to Environmental Change*
- Invited Speaker, October 2011, Geological Society of America Annual Meeting
- Invited Speaker, August 2011, Annual Meeting of the Ecological Society of America
- Invited Speaker, June 2011, The Geological Society of London Conference on Internal Architecture, Bedforms and Geometry of Turbidite Channels
- Invited Speaker, April 2011, Department Lecture Series, Department of Geological Sciences, The University of Texas at El Paso
- Invited Speaker, April 2011, AAPG/SEPM Annual Meeting
- Invited Speaker, January 2011, AGU Chapman Conference on Source to Sink Systems Around the World and Through Time
- Invited Speaker, April 2010, AAPG/SEPM Annual Meeting
- Invited Speaker, March 2010, Department Lecture Series, Department of Geosciences, Princeton University
- Invited Keynote Speaker, February 2010, National Science Foundation – MARGINS Successor Planning Workshop, San Antonio, Texas
- Invited Speaker, February 2010, Departmental Colloquium, Department of Geosciences, Penn State University
- Invited Speaker, April 2009, Department of Geological Sciences Colloquium, Indiana University - Bloomington

- Invited Speaker, April 2009, Department of Geosciences Seminar, Indiana University - Purdue University at Ft. Wayne
- Invited Speaker, April 2009, Department of Earth Sciences Colloquium, Indiana University - Purdue University at Indianapolis
- Invited Poster, 2008 AGU Annual Meeting
- Invited Speaker, 2008 AAPG/SEPM Annual Meeting
- Invited Speaker, Oct. 2008, Undergraduate Geological Society Seminar, Department of Geological Sciences, UT-Austin
- Invited Speaker, April 2008, Department of Earth Science Seminar, Rice University
- Invited Speaker, 2008 American Association for the Advancement of Science Annual Meeting
- Invited Speaker, Oct. 2007, Geological and Planetary Sciences Division Seminar, California Institute of Technology
- Invited Speaker, Feb. 2007, Undergraduate Geological Society Seminar, Department of Geological Sciences, UT-Austin
- Invited Speaker, 2006 AGU Annual Meeting
- Invited Speaker, Oct. 2006, Seminar Series, Institute for Geophysics, UT-Austin
- Invited Speaker, Oct 2006, Tech Session, Department of Geological Sciences, UT-Austin
- Invited Speaker, May 2006, Departmental Seminar Series, Dartmouth College Department of Earth Sciences
- Invited Speaker, April 2006, Applied Mechanics/Solid Earth Seminar Series, Harvard University
- Invited Speaker, Feb. 2006, Geology and Geophysics Seminar Series, Woods Hole Oceanographic Institute
- Invited Speaker, Dec. 2005, Gilbert Club, University of California-Berkeley.
- Invited Speaker, Nov. 2005, Mathematical Institute, University of Oxford.
- Invited Speaker, Nov. 2005, Geophysical Institute, Academy of Sciences of the Czech Republic.
- Invited Speaker, Nov. 2005, Departmental Lecture Series, Department of Geology, Charles University, Prague, Czech Republic.
- Invited Speaker, April 2005, Departmental Lecture Series, Department of Earth and Atmospheric Sciences, Cornell University
- Invited Speaker, Feb. 2005, Departmental Lecture Series, Department of Earth and Environmental Sciences, Tulane University
- Invited Speaker, April, 2004, *Environmental Stratigraphy*, Future Directions in Sedimentary Geology workshop, sponsored by Society for Sedimentary Geology (SEPM) and the National Center for Earth Surface Dynamics
- Boyd Distinguished Lectureship in Geological Sciences, Nov. 2004, Jackson School of Geosciences, University of Texas, Austin
- Invited Speaker, 2004, Departmental Lecture Series, Department of Civil and Environmental Engineering, MIT
- Invited Speaker, November 2003, *New Infrastructure in Sedimentary Geology*, ISES (Integrated Solid Earth Science) FORUM 1, sponsored by NSF
- Invited Speaker, 2003, Distinguished Lecturer Series, Department of Geology and Geophysics, University of Wyoming
- Invited Speaker, 2003, Departmental Lecture Series, Department of Geological Sciences, Case Western Reserve University
- Invited Speaker, 2002, Special Environmental Fluid Mechanics Seminar, Civil and Environmental Engineering, MIT
- Invited speaker, 2002 AGU Annual Meeting

- Invited speaker, Turbidites: Models and Problems Workshop, University of Parma, Italy, 2002
- Invited speaker, Granular Flows in Earth Sciences Workshop, University of Oslo, Norway, 2001
- Invited speaker, Society for Sedimentary Geology (SEPM) Diamond Jubilee Symposium, 2001

RESEARCH GRANTS & CONTRACTS:

Support: **Current**
Project/Proposal Title: **Transport Mechanisms across Geomorphic Transitions: Capturing Spatial and Temporal Evolution of River-Floodplain Connectivity within the Trinity River System (TX)**
Source of Support: **NSF**
coPI with P. Passalacqua: Total Award Period Covered: **6/1/22 – 5/31/27**
Location of Project: **The University of Texas at Austin**

Support: **Current**
Project/Proposal Title: **Subaward Partner: RioMAR**
Source of Support: **Industrial Consortium**
Mohrig Subcontract: Total Award Period Covered: **12/31/07 – 12/30/27**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Stratigraphic Impacts of Sediment Concentration Levels, Grain Size Distributions, and Flow-Stratification on Submarine Bedforms, Hybrid-Beds, Channel Forms, and Lobe Geometries: The Roles of Froude, Rouse, and Reynold Numbers**
Source of Support: EXXONMOBIL Upstream Research
coPI with J. Buttles: Total Award Period Covered: **1/1/20 – 8/31/24**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **COLLABORATIVE RESEARCH: Experimental and Numerical Constraints on Density Evolution, Buoyancy Reversal, and Runout Distance in Pyroclastic Density Currents**
Source of Support: **NSF**
coPI with J. Gardner: Total Award Period Covered: **6/1/19 – 5/31/23**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Role of Seafloor Topography in Modifying the Deposits of Sediment-Gravity Flows, with Particular Emphasis on Transitional Flows**
Source of Support: **Statoil**
PI D. Mohrig: Total Award Period Covered: **10/23/17 – 9/1/20**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Hydrology of Lake Overflow Flood Events on Early Mars**
Source of Support: **NASA**
PI D. Mohrig: Total Award Period Covered: **7/1/17 – 6/30/20**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Connecting the Deposit Properties of Lobes to Transport and Post-Depositional Processes**
Source of Support: **Statoil**
PI D. Mohrig: Total Award Period Covered: **1/1/15 – 6/15/18**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **FESD Type I: A Delta Dynamics Collaboratory**
Source of Support: **NSF**
PI D. Mohrig: Total Award Period Covered: **9/15/11 – 8/31/18**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **RAPID: Analysis of the May 2015 Texas Flood with a Connectivity Framework and High-Resolution Topography Data**
Source of Support: **NSF**

Co-PI Passalacqua, Maidment: Total Award Period Covered: **7/6/15 – 7/5/17**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Norphlet Aeolian Research**
Source of Support: **Shell International Exploration and Production, Inc.**
Co-PI Kocurek, Kim: Total Award Period Covered: **9/1/11 – 8/31/16**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Vertical and Longitudinal Trends in Properties of Mud-Rich Deepwater Sandstones**
Source of Support: **Statoil**
PI D. Mohrig: Total Award Period Covered: **6/1/13 – 12/31/15**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Development of Channelized-Lobe Stratigraphy with the Goal of Generating Rules for Geologic Models Aimed at Producing Channelized-Lobe Reservoirs**
Source of Support: **Statoil**
PI D. Mohrig: Total Award Period Covered: **1/15/12 – 10/14/14**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Deep Water Sedimentary Processes Workshop**
Source of Support: **Chevron U.S.A. Inc.**
PI D. Mohrig: Total Award Period Covered: **3/14 – 4/14**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Role of Bedform Interactions and Boundary Conditions in Pattern Development**
Source of Support: **NSF**
Co-PI with G. Kocurek: Total Award Period Covered: **9/1/09 – 8/31/11**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Subaward Partner: STC-National Center for Earth-surface Dynamics**
Source of Support: **NSF**
UT-Austin Subcontract: Total Award Period Covered: **8/1/07 – 3/31/13**
Location of Project: **University of Minnesota**

Project/Proposal Title: **An Experimental Study of How Minibasin Relief Controls Patterns of Basin Filling by Turbidity Currents**
Source of Support: **ConocoPhillips**
PI D. Mohrig: Total Award Period Covered: **12/31/10 – 12/31/12**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Transport & Sedimentation Processes Associated with High-Concentration Sediment-Gravity Currents**
Source of Support: **ENI SPA**
PI D. Mohrig: Total Award Period Covered: **1/15/12 – 12/31/12**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Subaward Partner: STC-National Center for Earth-surface Dynamics**
Source of Support: **NSF**
UT-Austin Subcontract: Total Award Period Covered: **8/1/06 – 7/31/07**
Location of Project: **University of Minnesota**

Project/Proposal Title: **Subaward Partner: RioMAR: River-mouth analysis research**
Source of Support: **Industrial Consortium**
Mohrig Subcontract: Total Award Period Covered: **9/1/06 – 12/31/07**
Location of Project: **The University of Texas at Austin**

Project/Proposal Title: **Subaward Partner: STC-National Center for Earth-surface Dynamics**
Source of Support: **NSF**
MIT Subcontract: Total Award Period Covered: **8/1/02 – 7/31/06**

Location of Project: **University of Minnesota**

Project/Proposal Title: **3D geometry and connectivity of submarine channel fills**
Source of Support: **Shell International Exploration and Production, Inc.**
Total Award Amount: Total Award Period Covered**: 10/1/02 – 5/31/07**
Location of Project: **Massachusetts Institute of Technology**

Project/Proposal Title: **COLLABORATIVE RESEARCH: Quantitative reconstruction of paleohydraulics of the Kayenta Formation - Implications for paleoclimate reconstruction**
Source of Support: **NSF**
Total Award Amount: Total Award Period Covered: **3/15/05 – 2/28/06**
Location of Project: **Massachusetts Institute of Technology**

Project Title: **Support to the Advancement of Science and Higher Education in the Field of Submarine Channel Formation and In-filling Processes**
Source of Support: **Shell International Exploration and Production, Inc.**
Total Gift Amount: Date: **1/30/03**
Location of Project: **Massachusetts Institute of Technology**

Project Title: **Support to the Advancement of Science and Higher Education in the Field of Submarine Channel Formation and In-filling Processes**
Source of Support: **Shell International Exploration and Production, Inc.**
Total Gift Amount: Date: **6/30/05**
Location of Project: **Massachusetts Institute of Technology**

STUDENT ADVISING AND SERVICE:

STUDENT ADVISEES:

Graduate Student	Degree Program	Status	Professional Appointment
Ph.D.			
William Bailey (co-chair)	PhD, EPS, UT-Austin	graduated Spring 2026	
Mariel Nelson (co-chair)	PhD, EPS, UT-Austin	graduated Fall 2025	
Cole Speed (co-chair)	PhD, EPS, UT-Austin	graduated Summer 2024	Postdoctoral Fellow, JPL
Chris Liu	PhD, DGS, UT-Austin	graduated Summer 2022	Texas Commission on Environmental Quality
Kathleen Wilson	PhD, DGS, UT-Austin	graduated Spring 2022	Assistant Professor, Dept. of Earth & Environ. Sciences, Boston College
Paul Morris (co-chair)	PhD, DGS, UT-Austin	graduated Spring 2022	bp America
Hima Hassenruck-Gudipati	PhD, DGS, UT-Austin	graduated Spring 2021	Assistant Professor, Dept. of Environmental Sciences, Policy, & Sustainability, Southern Oregon Univ.
John Swartz (co-chair)	PhD, DGS, UT-Austin	graduated Fall 2019	Research Scientist, The Water Institute of the Gulf
Max Daniller-Varghese (co-chair)	PhD, DGS, UT-Austin	graduated Summer 2019	Data Scientist, Applied Research Laboratories, U Texas
Benjamin Cardenas	PhD, DGS, UT-Austin	graduated Summer 2019	Assistant Professor, Dept. of Geosciences, Penn State U.
Ningjie Hu	PhD, DGS, UT-Austin	transferred Spring 2019	Ph.D. candidate, Earth & Ocean Sci., Duke U.
Jasmine Mason	PhD, DGS, UT-Austin	graduated Fall 2018	National Geospatial Intelligence Agy.
Woong Mo Koo	PhD, DGS, UT-Austin	graduated Spring 2018	Korea National Oil Corporation
Travis Swanson	PhD, DGS, UT-Austin	graduated Summer 2015	Assistant Professor, Dept. of Geology & Geography, Georgia Southern U.
Yao You (co-chair)	PhD, DGS, UT-Austin	graduated Summer 2013	Senior Data Scientist, OAG Analytics
John Shaw	PhD, DGS, UT-Austin	graduated Spring 2013	Associate Professor, Dept. of Geosciences, U. of Arkansas
Anjali Fernandes (co-chair)	PhD, DGS, UT-Austin	graduated Spring 2012	Assistant Professor, Dept. of Geosciences, Denison U.
Virginia Smith	PhD, DGS, UT-Austin	graduated Fall 2012	Associate Professor, Dept. of Civil & Environ. Engineering, Villanova U.
Aymeric-Pier Peyret	PhD, DGS, UT-Austin	graduated Fall 2011	Shell International E & P
Jeff Nittrouer	PhD, DGS, UT-Austin	graduated Fall 2010	Associate Professor, Dept. of Geosciences, Texas Tech University
Brandon McElroy	PhD, DGS, UT-Austin	graduated Fall 2009	Associate Professor, Dept. of Geology & Geophysics, U. of Wyoming

Kyle Straub	PhD, EAPS, MIT	graduated Spring 2007	Professor, Dept. of Earth & Environmental Sci., Tulane Univ.
Doug Jerolmack	PhD, EAPS, MIT	graduated Spring 2006	Professor, Dept. of Earth & Environmental Sci., U. Penn
William Lyons	PhD, MIT-WHOI Joint Program	graduated Summer 2004	Technical Lead Deepwater Exploration, Shell Exploration & Production Company, Houston, TX
M.S.			
Jonas Haug (co-chair)	MS, EPS, UT-Austin		Moved to EPS Ph.D. program
Emily Hugo (co-chair)	MS, EPS, UT-Austin	graduated Spring 2025	
Natalie Dehueck	MS, EER, EPS, UT-Austin	graduated Spring 2024	
Nicole Gonzalez	MS, DGS, UT-Austin	graduated Spring 2022	
Indre Altman (co-chair)	MS-EER, DGS, UT-Austin	graduated Summer 2020	
Daniel Aylward	MS, DGS, UT-Austin	graduated Fall 2017	
Brandon Minton (co-chair)	MS, DGS, UT-Austin	graduated Fall 2016	
David Brown	MS, DGS, UT-Austin	graduated Fall 2015	
Kelsi Ustipak	MS, DGS, UT-Austin	graduated Fall 2015	
Angela Eluwa	MS-EER, DGS, UT-Austin	graduated Summer 2015	
Anthony McGlown	MS, DGS, UT-Austin	graduated Spring 2015	
Allison Pace (co-chair)	MS-EER, DGS, UT-Austin	graduated Spring 2015	
Benjamin Cardenas	MS, DGS, UT-Austin	graduated Fall 2014	
Brittany Smith (co-chair)	MS, DGS, UT-Austin	graduated Spring 2014	
Katie Delbecq (co-chair)	MS, DGS, UT-Austin	graduated Spring 2013	Specialist, Texas Commission on Environmental Quality
Christopher Armstrong (co-chair)	MS, DGS, UT-Austin	graduated Spring 2012	Geoscientist at Southwestern Energy
Christopher Elmore (co-chair)	MS, DGS, UT-Austin	graduated Fall 2008	Geoscientist at Marathon
Terra George	MS, DGS, UT-Austin	graduated Summer 2008	Geoscientist at ConocoPhillips
Christina Kaba	MS, MIT-WHOI Joint Program	graduated Spring 2004	Law Associate, Land Air Water Legal Solutions LLC

Post-Doctoral Associates/Fellows

Julia Cisneros	University of Illinois at Urbana-Champaign	6/22 – 8/23	Assistant Professor, Dept. of Geosciences, Virginia Tech Univ.
Eric Prokocki	University of Illinois at Urbana-Champaign	11/16 – 8/20	Assistant Professor, Dept. of Geosciences, Florida Atlantic Univ.
Timothy Goudge	Brown University	7/15 – 12/18	Assistant Professor, Geol. Sciences, UT-Austin
Daniel Sturmer	University of Nevada, Reno	1/16 – 12/16	Assistant Professor, Dept of Geology, U. Cincinnati
Richard Wayne Wagner	Univ. of California at Berkeley	7/12 – 7/17	Post-doctoral Fellow, U. New Orleans
Mauricio Perillo	University of Illinois at Urbana-Champaign	10/12 – 12/14	ExxonMobil Upstream Research Company
Nathanael Geleynse	Delft University of Technology	7/12 – 9/13	ARCADIS Design & Consultancy
Michael Lamb	Univ. of California at Berkeley	7/08 – 6/09	Professor of Geology, California Institute of Technology
James Buttles	Johns Hopkins University	10/02 – 12/05	Research Engineering/ Scientist Associate III, UT-Austin

Undergraduate Thesis Advisees

Christina Alana Raymond	BS, EPS, UT-Austin	DGS Honors thesis	graduated Spring 2025
Xiafei Zhao	BS, DGS, UT-Austin	DGS Honors thesis	graduated Spring 2020
Matthew B Nix	BS, DGS, UT-Austin	DGS Honors thesis	graduated Spring 2019
Arisa Ruangsirikulchai	BS, DGS, UT-Austin	DGS Honors thesis	graduated Spring 2019
Mitchell Pham	BS, EVS Program	Capstone project	graduated Spring 2018
John Malito	BS, EVS Program	Capstone project	graduated Spring 2018
Elisabeth Davis (co-chair)	BS, DGS, UT-Austin	DGS Honors thesis	graduated Spring 2018
Thad Ellis	BS, DGS, UT-Austin	DGS Honors thesis	graduated Spring 2017
Rose Palermo	BS-DGS & Plan II, UT-Austin	DGS Honors thesis	graduated Spring 2016
Holly Goggin	BS, DGS, UT-Austin	Jackson Scholar	graduated Fall 2013
Elizabeth Rinehart	BS, DGS, UT-Austin	DGS Honors thesis	graduated Spring 2011
Spencer Whitman	BS, DGS, UT-Austin	DGS Honors thesis	graduated Spring 2009
Elke Baitis	BS, DGS, UT-Austin	DGS Honors thesis	graduated Spring 2008
Vivian Leung	BS, EAPS, MIT		graduated Spring 2006
Melanie Michalak	BS, EAPS, MIT		graduated Spring 2006
Roberto Carlos Rangel	BS, Mech.l Engineering, MIT		graduated Spring 2006
Meryl Towarak	BS, EAPS, MIT		graduated Spring 2003

Awards to student advisees:

Doug Jerolmack (graduate):

· American Geophysical Union (2003 Fall Meeting) - Outstanding Student Paper Award - Nonlinear Geophysics Focus Group.

· American Geophysical Union (2005 Fall Meeting) - Outstanding Student Paper Award – Hydrology Section.

Kyle Straub (graduate):
American Geophysical Union (2004 Spring Meeting) – Outstanding Student Paper Award – Seismology Section.

Yao You (graduate):
American Geophysical Union (2010 Fall meeting) – Outstanding Student Paper Award – Ocean Sciences Section.

Anjali Fernandes (graduate):
American Association of Petroleum Geologists (2011 Annual Meeting) – Best Student Oral Presentation

Virginia Smith (graduate):
American Geophysical Union (2011 Fall Meeting) – Outstanding Student Paper Award – Earth & Planetary Surface Proc. Group

Max Daniller-Varghese (graduate):
American Geophysical Union (2017 Fall Meeting) – Outstanding Student Paper Award – Earth & Planetary Surface Proc. Section

Hima Hassenruck-Gudipati (graduate):
American Geophysical Union (2018 Fall Meeting) – Outstanding Student Paper Award – Earth & Planetary Surface Proc. Section

Matthew Nix (undergraduate):
· Houston Geological Society (2019) – The Maby Scholarship [awarded to the highest overall ranked student each year]
· 8th Annual JSG Student Symposium (2019) – *Controls on the Sedimentation and Morphology of an Oxbow Lake Along the Trinity River, Texas, USA* – Honorable Mention

Arisa Ruangsirikulchai (undergraduate):
8th Annual JSG Student Symposium (2019) – *Evolution of Return-Flow Channels Cut Into San Jose Island, Texas, Caused by Hurricane Harvey* – First Place

Xiafei Zhao (undergraduate):
American Geophysical Union (2019 Fall Meeting) – Outstanding Student Presentation Award – Earth & Planetary Surface Proc. Section

Ph.D. committee membership:
Jack H Lloyd – Marine Science, UT-Austin [primary advisor: Zhanfei Liu]
August Aalto – Earth & Planetary Sciences, UT-Austin [primary advisor: Dan Breecker]
Jenna Kohn – Earth & Planetary Sciences, UT-Austin [primary advisors: Jake Covault & Zoltan Sylvester]
Mikayla Pascual – Earth & Planetary Sciences, UT-Austin [primary advisor: Ginny Catania]
Juan Gutierrez – Earth & Planetary Sciences, UT-Austin [primary advisors: Michael Sweet & Jake Covault]
91. Scarlette Hsia – Earth & Planetary Sciences, UT-Austin [GRADUATED Summer 2025, primary advisor: C. Kerans]
90. Dallas Dunlap – Earth & Planetary Sciences, UT-Austin [GRADUATED Summer 2025, primary advisor: Tip Meckel]
89. Shawn Fullmer – Earth & Planetary Sciences, UT-Austin [GRADUATED Summer 2025, primary advisor: C. Kerans]
88. Grace Guryan – Earth & Planetary Sciences, UT-Austin [GRADUATED Summer 2005, primary advisor: J. Johnson]
87. Fernando Rey – Earth & Planetary Sciences, UT-Austin [GRADUATED Summer 2025, primary advisor: Matt Malkowski]
86. Carson Miller – Earth & Planetary Sciences, UT-Austin [GRADUATED Spring 2025, primary advisor: S. Gulick]
85. Kyle Fouke – Earth & Planetary Sciences, UT-Austin [GRADUATED Spring 2025, primary advisor: C. Kerans]
84. Nelson Tull – Civil, Arch. & Environ. Eng., UT-Austin [GRADUATED Summer 2024, primary advisor: P. Passalacqua]
83. Sarp Karakaya – Earth & Planetary Sci., UT-Austin [GRADUATED Summer 2024, co-advisors: C. Olariu & C. Ogiesoba]
82. Rawan Alasad – Earth & Planetary Sciences, UT-Austin [GRADUATED Summer 2024, co-advisors: C. Olariu & R. Steel]
81. Michelle Tebolt – Earth & Planetary Sciences, UT-Austin [GRADUATED Spring 2024, primary advisor: T. Goudge]
80. Meredith Brown – CAE. Eng., UT-Austin [GRADUATED Spring 2024 co-advisors: K. Faust & P. Passalacqua]
79. Charlie Zheng – Earth & Planetary Sciences, UT-Austin [GRADUATED Fall 2023, primary advisor: C. Kerans]
78. Mohammed Fallatah – Geological Sciences, UT-Austin [GRADUATED Summer 2023, primary advisor: C. Kerans]
77. Evelin (Gabby) Gutierrez – Geological Sciences, UT-Austin [GRADUATED Spring 2023, primary advisor: D. Stockli]
76. Kyle Wright – Civil, Arch. & Env. Eng., UT-Austin [GRADUATED Fall 2022, primary advisor: P. Passalacqua]
75. Cullen Kortyna – Geological Sciences, UT-Austin [GRADUATED Summer 2022, primary advisor: D. Stockli]
74. Catherine Ross – Geological Sciences, UT-Austin [GRADUATED Summer 2022, primary advisor: D. Stockli]
73. Sean O'Donnell – Geological Sciences, UT-Austin [DEFENDED Summer 2022, primary advisor: J. Gardner]
72. Rose Palermo – WHOI/MIT Joint Program [GRADUATED Summer 2022, primary advisor: A. Ashton]
71. Yuqian (Philomena) Gan– Geological Sciences, UT-Austin [GRADUATED Spring 2022, advisors: C. Olariu & R. Steel]
70. Benjamin Rendall – Geological Sciences, UT-Austin [GRADUATED Spring 2022, primary advisor: C. Kerans]
69. Buddy Price – Geological Sciences, UT-Austin [GRADUATED Spring 2022, primary advisor: C. Kerans]
68. Patrick Kevin Meazell – Geological Sciences, UT-Austin [GRADUATED Fall 2021, primary advisor: P. Flemings]

67. Teresa Jarriel – Civil, Arch. & Environ. Eng., UT-Austin [GRADUATED Spring 2021, primary advisor: P. Passalacqua]
66. Andrew Gunn – Earth & Env. Science, U. of Pennsylvania [GRADUATED Spring 2021, primary advisor: D. Jerolmack]
65. Logan West – Geological Sciences, UT-Austin [GRADUATED Fall 2020, primary advisor: R. Steel]
64. Joana Silva – Earth Sciences, Universiteit Utrecht [GRADUATED Summer 2020, primary advisor: J. Eggenhuisen]
63. Li Liu – Geological Sciences, UT-Austin [GRADUATED Spring 2020, primary advisor: W. Fisher]
62. Stefano Nerozzi – Geological Sciences, UT-Austin [GRADUATED Summer 2019, primary advisor: J. Holt]
61. Yongsik Kim – Civil, Arch. & Env. Engineering, UT-Austin [GRADUATED Spring 2019, primary advisor: B. Hodges]
60. Eric Peterson – Geological Sciences, UT-Austin [GRADUATED Summer 2018, primary advisor: J. Holt]
59. Ryan Bradley – Geography, Simon Fraser U [GRADUATED Summer 2018, primary advisor: J. Venditti]
58. Yang Peng – Geological Sciences, UT-Austin [GRADUATED Summer 2018, primary advisor: R. Steel]
57. Kristopher Darnell – Geological Sciences, UT-Austin [GRADUATED Spring 2018, primary advisor: P. Flemings]
56. Matthew Czapiga – Civil & Environ. Engineering, U Illinois-UC [GRADUATED Spring 2018, primary advisor: G. Parker]
55. Alicia Sendrowski – Civil, Arch. & Env. Eng., UT-Austin [GRADUATED Spring 2018, primary advisor: P. Passalacqua]
54. Peter Gold – Geological Sciences, UT-Austin [GRADUATED Spring 2018, primary advisor: W. Behr]
53. Elliot Dahl – Geological Sciences, UT-Austin [GRADUATED Fall 2017, primary advisor: K. Spikes]
52. Andrea Nolting – Geological Sciences, UT-Austin [GRADUATED Fall 2017, primary advisor: C. Kerans]
51. Lizhi Zheng – Geological Sciences, UT-Austin [GRADUATED Spring 2017, primary advisor: M.B. Cardenas]
50. Khushboo Arora – Geological Sciences, UT-Austin [GRADUATED Spring 2017, primary advisor: L. Wood]
49. Mackenzie Day – Geological Sciences, UT-Austin [GRADUATED Spring 2017, primary advisor: G. Kocurek]
48. Sarah Christian Brothers – Geological Sciences, UT-Austin [GRADUATED Fall 2016, primary advisor: G. Kocurek]
47. Kealie Goodwin – Geological Sciences, UT-Austin [GRADUATED Summer 2016, primary advisor: J. Johnson]
46. Brendan Murphy – Geological Sciences, UT-Austin [GRADUATED Summer 2016, primary advisor: J. Johnson]
45. Rattanaporn "Ja" Fong-Ngern – Geological Sciences, UT-Austin [GRADUATED Summer 2016, primary advisor: R. Steel]
44. Matthew Hiatt – Civil & Environ. Engineering, UT-Austin [GRADUATED Spring 2016, primary advisor: P. Passalacqua]
43. Kiran Sathaye – Geological Sciences, UT-Austin [GRADUATED Spring 2016, primary advisor: M. Hesse]
42. Gregory Hurd – Geological Sciences, UT-Austin [GRADUATED Spring 2016, primary advisor: C. Kerans]
41. Anastasia Piliouras – Geological Sciences, UT-Austin [GRADUATED Spring 2016, primary advisor: W. Kim]
40. Maureen LeVoir Walton – Geological Sciences, UT-Austin [GRADUATED Spring 2016, primary advisor: S. Gulick]
39. Maria Isabel Prieto – Geological Sciences, UT-Austin [GRADUATED Spring 2016, primary advisor: L. Wood]
38. Annie Miller Hanna – Geological Sciences, UT-Austin [GRADUATED Fall 2015, primary advisor: M. Allison]
37. Lauren Andrews – Geological Sciences, UT-Austin [GRADUATED Fall 2015, primary advisor: G. Catania]
36. Thomas Charles Brothers – Geological Sciences, UT-Austin [GRADUATED Spring 2015, primary advisor: J. Holt]
35. Brian Kiel – Geological Sciences, UT-Austin [GRADUATED Spring 2015, primary advisor: L. Wood]
34. Lindsay Olinde – Geological Sciences, UT-Austin [GRADUATED Fall 2014, primary advisor: J. Johnson]
33. Migdalys Salazar – Geological Sciences, UT-Austin [GRADUATED Spring 2014, primary advisor: L. Wood]
32. Dustin Schroeder – Geological Sciences, UT-Austin [GRADUATED Spring 2014, primary advisor: D. Blankenship]
31. Esther C. Eke – Civil Eng., U. of Illinois at Urbana-Champaign [GRADUATED Fall 2013, primary advisor: G. Parker]
30. Josh Dixon – Geological Sciences, UT-Austin [GRADUATED Spring 2013, primary advisor: R. Steel]
28. Isaac Smith – Geological Sciences, UT-Austin [GRADUATED Spring 2013, primary advisor: J. Holt]
27. Vishal Maharaj – Geological Sciences, UT-Austin [GRADUATED Fall 2012, primary advisor: L. Wood]
26. Robert Reece – Geological Sciences, UT-Austin [GRADUATED Fall 2012, primary advisor: S. Gulick]
25. Manasij Santra – Geological Sciences, UT-Austin [GRADUATED, primary advisor: R. Steel]
24. Erin Eastwood – Geological Sciences, UT-Austin [GRADUATED, primary advisor: G. Kocurek]
23. Julia Schneider – Geological Sciences, UT-Austin [GRADUATED, primary advisor: P. Flemings]
22. Darrin Burton – Geological Sciences, UT-Austin [GRADUATED, primary advisor: L. Wood]
21. Carla Sanchez – Geological Sciences, UT-Austin [GRADUATED, primary advisor: R. Steel]
20. Audrey Sawyer – Geological Sciences, UT-Austin [GRADUATED, primary advisor: B. Cardenas]
19. Derek Sawyer – Geological Sciences, UT-Austin [GRADUATED, primary advisor: P. Flemings]
18. Jeong Yeon Cheon – Civil, Arch., & Env. Engineering, UT-Austin [GRADUATED, primary advisor: R. Gilbert]
17. Andrew Petter – Geological Sciences, UT-Austin [GRADUATED, primary advisor: R. Steel]
16. Benjamin Andrews – Geological Sciences, UT-Austin [GRADUATED, primary advisor: J. Gardner]
15. Jerome Bellian – Geological Sciences, UT-Austin [GRADUATED, primary advisor: C. Kerans]
14. Sasha Carter – Geological Sciences, UT-Austin [GRADUATED, primary advisor: D. Blankenship]
13. Cristian Carvajal – Geological Sciences, UT-Austin [GRADUATED, primary advisor: R. Steel]
12. Ryan Ewing – Geological Sciences, UT-Austin [GRADUATED, primary advisor: G. Kocurek]
11. Lorena Moscardelli – Geological Sciences, UT-Austin [GRADUATED, primary advisor: L. Wood]
10. Amy Draut – MIT-Woods Hole Oceanographic Inst. Joint Program [GRADUATED, primary advisor: G. Kineke]
9. Jon Woodruff – MIT-Woods Hole Oceanographic Institute JP [GRADUATED, primary advisor: J. Donnelly]
8. Benjamin Crosby – EAPS, MIT [GRADUATED, primary advisor: K. Whipple]

7. Joel Johnson – EAPS, MIT [GRADUATED, primary advisor: K. Whipple]
6. William Ouimet – EAPS, MIT [GRADUATED, primary advisors: K. Whipple & L. Royden]
5. Katharine Ruhl – EAPS, MIT [GRADUATED, primary advisor: K. Hodges]
4. Taylor Schildgen – EAPS, MIT [GRADUATED, primary advisors: K. Whipple & K. Hodges]
3. Cameron Wobus – EAPS, MIT [GRADUATED, primary advisors: K. Hodges & K. Whipple]
2. Ranie Lynds – Geology and Geophysics, University of Wyoming [GRADUATED, primary advisor, P. Heller]
1. John Martin – Geology and Geophysics, University of Minnesota [GRADUATED, primary advisor, C. Paola]

Masters committee membership:

53. Marcos Jimenez – Earth & Planetary Sci., UT-Austin [GRADUATED Summer 2026, primary advisor, M. Malkowski]
52. Abigail Tucker – Earth & Planetary Sci., UT-Austin [GRADUATED Spring 2026, primary advisor, Z. Sylvester]
51. Abdulmajeed A. Alrefaei – Earth & Planetary Sci., UT-Austin [GRADUATED Summer 2025, primary advisor, C. Olariu]
50. Houssin Hassan Albarri – Earth & Planetary Sci., UT-Austin [GRADUATED Summer 2025, primary advisor, C. Olariu]
49. Azalea Norwood – Civil, Arch. & Env. Eng., UT-A. [GRADUATED Summer 2025, primary advisor: P. Passalacqua]
48. Melanie Amador – Earth & Planetary Sciences, UT-Austin [GRADUATED Spring 2025, primary advisor, R. Ketcham]
47. Zahra Al Awami – Earth & Planetary Sciences, UT-Austin [GRADUATED Summer 2024, primary advisor: C. Kerans]
46. Matthew Nix – Geological Sciences, UT-Austin [GRADUATED Spring 2022, primary advisor: B. Horton]
45. John Franey – Geological Sciences, UT-Austin [GRADUATED Fall 2021, primary advisor: T. Meckel]
44. Harry Hull – Geological Sciences, UT-Austin [GRADUATED Spring 2021, primary advisor: J. Snedden]
43. Colton Spears – Geological Sciences, UT-Austin [GRADUATED Fall 2020, primary advisor: X. Janson]
42. Shazzadur Rahman – Civil, Arch. & Env. Eng., UT-A. [GRADUATED Summer 2020, primary advisor: P. Passalacqua]
41. Jayaram Hariharan – Civil, Arch. & Env. Eng., UT-Austin [GRADUATED Spring 2019, primary advisor: P. Passalacqua]
40. Sean O'Donnell – Geological Sciences, UT-Austin [GRADUATED Summer 2018, primary advisor: J. Gardner]
39. Kyle Wright – Civil, Arch. & Environ. Eng., UT-Austin [GRADUATED Spring 2018, primary advisor: P. Passalacqua]
38. Emily Beckman – Geological Sciences, UT-Austin [GRADUATED Spring 2018, primary advisor: T. Meckel]
37. Francis Pinkston – Geological Sciences, UT-Austin [GRADUATED Fall 2017, primary advisor: P. Flemings]
36. Can Ceyhan – Geological Sciences, UT-Austin [GRADUATED Summer 2017, primary advisor: W. Fisher]
35. Emily Bradshaw Marino – Geological Sciences, UT-Austin [GRADUATED Spring 2017, primary advisor: J. Johnson]
34. Kullamard Krueworramunee – Geological Sci., UT-Austin [GRADUATED Summer 2016, primary advisor: W. Fisher]
33. Nick Danger – Geological Sciences, UT-Austin [GRADUATED Spring 2016, primary advisor: C. Kerans]
32. Ningjie Hu – Geological Sciences, UT-Austin [GRADUATED Spring 2016, primary advisor: R. Loucks]
31. Timothy Prather – Geological Sciences, UT-Austin [GRADUATED Spring 2016, primary advisor: W. Fisher]
30. Emily Chatmas – Geological Sciences, UT-Austin [GRADUATED Spring 2016, primary advisor: W. Kim]
29. YeJin Lim – Geological Sciences, UT-Austin [GRADUATED Spring 2016, primary advisor: W. Kim]
28. Eunsil Jung – Geological Sciences, UT-Austin [GRADUATED Spring 2016, primary advisor: W. Kim]
27. Amet Kabakci – Geological Sciences, UT-Austin [GRADUATED Spring 2015, primary advisor: W. Fisher]
26. Ann Caroline Bovay – Geological Sciences, UT-Austin [GRADUATED Spring 2015, primary advisor: J. Snedden]
25. Aleksandr Montelli – Geological Sciences, UT-Austin [GRADUATED Spring 2015, primary advisor: S. Gulick]
24. Francis Mulcahy – Geological Sciences, UT-Austin [GRADUATED Spring 2015, primary advisor: T. Meckel]
23. Corey Van Dyk – Civil & Env. Engineering, UT-Austin [GRADUATED Spring 2015, primary advisor: P. Passalacqua]
22. David Conwell – Geological Sciences, UT-Austin [GRADUATED Spring 2015, primary advisor: R. Steel]
21. Sarah Bateman – Geological Sciences, UT-Austin [GRADUATED Spring 2015, primary advisor: R. Steel]
20. Jeremy Slaugenwhite – Geological Sciences, UT-Austin [GRADUATED Spring 2015, primary advisor: R. Steel]
19. Moonsoo (Brian) Shin – Geological Sciences, UT-Austin [GRADUATED Spring 2015, primary advisor: R. Steel]
18. Megan Ferre – M.A. Geological Sciences, UT-Austin [GRADUATED Spring 2015, primary advisor: J. Johnson]
17. Eugen Tudor – Geological Sciences, UT-Austin [GRADUATED Spring 2014, primary advisor: R. Steel]
16. Anine Pedersen – Geological Sciences, UT-Austin [GRADUATED Summer 2014, primary advisor: G. Kocurek]
15. Dallas Dunlap – Geological Sciences, UT-Austin [GRADUATED Fall 2013, primary advisor: L. Wood]
14. Nataleigh Vann – Geological Sciences, UT-Austin [GRADUATED Fall 2013, primary advisor: R. Steel]
13. Jessica Kopp – Geological Sciences, UT-Austin [GRADUATED Spring 2013, primary advisor: W. Kim]
12. Francis A. Norman – Geological Sciences, UT-Austin [GRADUATED Spring 2013, primary advisor: B. Cardenas]
11. Ellen Reid – Geological Sciences, UT-Austin [GRADUATED Summer 2012, primary advisor: W. Kim]
10. Alex Aronovitz – Geological Sciences, UT-Austin [GRADUATED Spring 2012, primary advisor: J. Johnson]
9. Benjamin Wagman – Geological Sciences, UT-Austin [GRADUATED Spring 2012, primary advisor: G. Catania]
8. Michael Ramirez – Geological Sciences, UT-Austin [GRADUATED, primary advisor: M. Allison]
7. Elke Baitis – Geological Sciences, UT-Austin [GRADUATED, primary advisor: G. Kocurek]
6. Erica Powell – Geological Sciences, UT-Austin [GRADUATED, primary advisor: W. Kim]
5. Rebecca Comeaux – Geological Sciences, UT-Austin [GRADUATED, primary advisor: M. Allison]
4. Glenn Makechnie – Geological Sciences, UT-Austin [GRADUATED, primary advisor: G. Kocurek]

3. Brian Kiel – Geological Sciences, UT-Austin [GRADUATED, primary advisor: L. Wood]
2. Blair Stanley – Geological Sciences, UT-Austin [GRADUATED, primary advisor: B. Cardenas]
1. Hillary Strong – Geological Sciences, UT-Austin [GRADUATED, primary advisor: P. Flemings]

Undergraduate Honor Thesis committee membership:
Liesel Papenhausen – Earth & Planetary Sci., UT-Austin [COMPLETED Spring 2026, primary advisor, T. Goudge]
Cole L. Carrabba – Geological Sciences, UT-Austin [COMPLETED Spring 2023, primary advisor: C. Olariu]
John D. Franey – Geological Sciences, UT-Austin [COMPLETED Spring 2019, primary advisor: J. Johnson]
Sebastian Munoz – Geological Sciences, UT-Austin [COMPLETED Spring 2018, primary advisor: M.B. Cardenas]
Cole Speed – Geological Sciences, UT-Austin [COMPLETED Spring 2017, primary advisor: S. Gulick]
Colin White – Geological Sciences, UT-Austin [COMPLETED Spring 2017, primary advisor: S. Gulick]
Susannah Marie Morey – Geological Sciences, UT-Austin [COMPLETED Spring 2016, primary advisor: S. Gulick]
Joe Salinas – Geological Sciences, UT-Austin [COMPLETED Spring 2015, primary advisor: W. Kim]
Brandee Carlson – Geological Sciences, UT-Austin [COMPLETED Fall 2013, primary advisor: W. Kim]
Abid Abdelaziz – Geological Sciences, UT-Austin [COMPLETED Fall 2012, primary advisor: W. Kim]

TEACHING:
UT-Austin

- GEO302J (undergrad). Crisis of Our Planet: Spring 2026 (co-taught with Gardner)
- GEO380R (grad). Dynamics of Sedimentary Systems 1: Fall 2025
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Fall 2025
- GEO360G (undergrad). Construction & Interpretations of 3D Stratigraphy: Fall 2025
- GEO302J (undergrad). Crisis of Our Planet: Spring 2025 (co-taught with Gardner)
- GEO416S (undergrad). Earth & Planetary Processes through Time, Spring 2025 (co-taught with Spikes)
- GEO660A (undergrad). Field Geology – TX NM CO WY MT: Summer 2024
- GEO401 (undergrad). Physical Geology: Fall 2023 (co-taught with Poteet and Bell)
- GEO380R (grad). Dynamics of Sedimentary Systems 1: Fall 2023
- GEO660A (undergrad). Field Geology – TX NM CO WY MT: Summer 2023
- GEO302J (undergrad). Crisis of Our Planet: Spring 2023 (co-taught with Gardner)
- GEO371T (undergrad). Understanding Sea Level: Spring 2023 (co-taught with Catania)
- GEO391 (grad). Understanding Sea Level: Spring 2023 (co-taught with Catania)
- GEO401 (undergrad). Physical Geology: Fall 2022 (co-taught with Poteet and Bell)
- GEO660A (undergrad). Field Geology – TX NM CO WY MT: Summer 2022
- GEO302J (undergrad). Crisis of Our Planet: Spring 2022 (co-taught with Becker & Gardner)
- GEO380R (grad). Dynamics of Sedimentary Systems 1: Fall 2021
- GEO401 (undergrad). Physical Geology: Fall 2021 (co-taught with Poteet and Bell)
- GEO302J (undergrad). Crisis of Our Planet: Spring 2021 (co-taught with Becker & Gardner)
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Fall 2020
- GEO360G (undergrad). Construction & Interpretations of 3D Stratigraphy: Fall 2020
- GEO302J (undergrad). Crisis of Our Planet: Spring 2020 (co-taught with Becker & Gardner)
- GEO391 (grad). Holocene-Pleistocene Stratigraphy, & Sea Level: Spring 2020 (co-taught with Kerans)
- GEO416M (undergrad). Sedimentary Rocks: Fall 2019
- GEO660A (undergrad). Field Geology – TX NM CO WY MT: Summer 2019

- GEO391 (grad). Holocene-Pleistocene Sedimentation, Stratigraphy, & Sea Level: Spring 2019 (co-taught with Kerans & Zahm)
- GEO302J (undergrad). Crisis of Our Planet: Spring 2019 (co-taught with Becker & Gardner)
- GEO380R (grad). Dynamics of Sedimentary Systems 1: Fall 2018
- GEO660A (undergrad). Field Geology – TX NM CO WY MT: Summer 2018
- GEO391 (grad). Carbonate Platforms and Platform Margin Systems: Spring 2018 (co-taught with Kerans)
- GEO391 (grad). Sediment Gravity-Flow Depositional Systems: Processes to Products: Spring 2018 (co-taught with Covault & Sylvester)
- GEO 302P (undergrad). Sustaining a Planet (Crisis of our Planet): Spring 2018 (co-taught with Gardner & Becker)
- GEO 420K (undergrad). Introduction to Field and Stratigraphic Methods: Spring 2018 (co-taught with Helper)
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Fall 2017
- GEO360G (undergrad). Construction & Interpretations of 3D Stratigraphy: Fall 2017
- GEO660A. Field Geology – TX NM CO WY MT: Summer 2017
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Fall 2016
- GEO360G (undergrad). Construction & Interpretations of 3D Stratigraphy: Fall 2016
- GEO380R. Dynamics of Sedimentary Systems 1: Fall 2016 (co-taught with Kocurek)
- GEO660B. Field Geology – TX NM CO WY MT: Summer 2016
- TC302. Landscape Tales in Art, Literature, and Geology: Spring 2016 (co-taught with C.M. Lai)
- GEO291 (grad). Mars Sedimentology: Spring 2016 (co-taught with T. Goudge)
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Fall 2015
- GEO360G (undergrad). Construction & Interpretations of 3D Stratigraphy: Fall 2015
- GEO380R. Dynamics of Sedimentary Systems 1: Fall 2015 (co-taught with Kocurek)
- GEO391. Sedimentary Source-to-Sink Dynamics Seminar: Fall 2015 (co-taught with Stockli)
- GEO660A. Field Geology – TX NM CO WY MT: Summer 2015
- TC302. Landscape Tales in Art, Literature, and Geology: Spring 2015 (co-taught with C.M. Lai)
- GEO316P. Sedimentary Rocks: Spring 2015 (co-taught with Fisher)
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Fall 2014
- GEO371C (undergrad). Construction & Interpretations of 3D Stratigraphy: Fall 2014
- GEO380R. Dynamics of Sedimentary Systems 1: Fall 2014 (co-taught with Kocurek)
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Spring 2014
- GEO371C (undergrad). Construction & Interpretations of 3D Stratigraphy: Spring 2014
- GEO391 (grad). Field Stratigraphy: Southwest Oregon: Spring 2014 (co-taught with Kocurek)
- GEO391 (grad). Sediment Gravity-Flow Depositional Systems: Spring 2014
- GEO371C (undergrad). Sediment Gravity-Flow Depositional Systems: Spring 2014
- GEO660A. Field Geology – TX NM CO WY MT: Summer 2013
- GEO380R. Dynamics of Sedimentary Systems 1: Spring 2013 (co-taught with Kocurek)
- GEO316P. Sedimentary Rocks: Spring 2013 (co-taught with Fisher)
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Fall 2012

- GEO371C (undergrad). Construction & Interpretations of 3D Stratigraphy: Fall 2012
- GEO391 (grad). Field Stratigraphy in the Guadalupe Mountains: Spring 2012 (co-taught with Flemings)
- GEO371C (undergrad). Field Stratigraphy in the Guadalupe Mountains: Spring 2012 (co-taught with Flemings)
- GEO380R. Dynamics of Sedimentary Systems 1: Fall 2011 (co-taught with Kocurek)
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Fall 2011
- GEO371C (undergrad). Construction & Interpretations of 3D Stratigraphy: Fall 2011
- GEO660A. Field Geology – TX NM CO WY MT: Summer 2011 (1st unit)
- GEO380R. Dynamics of Sedimentary Systems 1: Spring 2011 (co-taught with Kocurek)
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Fall 2010
- GEO371C (undergrad). Construction & Interpretations of 3D Stratigraphy: Fall 2010
- GEO416M. Sedimentary Rocks: Fall 2010 (co-taught with G. Kocurek)
- GEO660A. Field Geology – TX NM CO WY MT: Summer 2010 (co-taught 1st unit with Kerans)
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Fall 2009
- GEO371C (undergrad). Construction & Interpretations of 3D Stratigraphy: Fall 2009
- GEO391. Morphodynamics: Fall 2009 (co-taught with W. Kim)
- GEO660A. Field Geology – TX NM CO WY MT: Summer 2009 (co-taught 1st unit with Kerans)
- GEO416M. Sedimentary Rocks: Spring 2009 (co-taught with B. McElroy)
- GEO380R. Dynamics of Sedimentary Systems 1: Fall 2008 (co-taught with Kocurek)
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Fall 2008
- GEO371C (undergrad). Construction & Interpretations of 3D Stratigraphy: Fall 2008
- GEO660A. Field Geology – TX NM CO WY MT: Summer 2008 (co-taught 1st unit with Kerans)
- GEO416M. Sedimentary Rocks: Spring 2008 (co-taught with Quinn)
- GEO391. Field Stratigraphy in the Guadalupe Mountains: Spring 2008 (co-taught with Flemings & Kerans)
- GEO380R. Dynamics of Sedimentary Systems 1: Fall 2007 (co-taught with Kocurek)
- GEO380G (grad). Construction & Interpretations of 3D Stratigraphy: Fall 2007
- GEO371C (undergrad). Construction & Interpretations of 3D Stratigraphy: Fall 2007
- GEO416M. Sedimentary Rocks: Spring 2007 (co-taught with Quinn)
- GEO391. Construction of Subsurface Reservoirs: Fall 2006

MIT

- 12.159/12.459. Sedimentary and Surficial Geological Investigations. co-taught with D. Rothman, Spring 2006. [studied processes controlling channel formation by groundwater seepage erosion near Bristol, FL]
- 12.152/12.452. Depositional Mechanics, Spring 2006.
- 12.459. Sedimentary and Surficial Geological Investigations. co-taught with J. Grotzinger, Spring 2005. [studying eolian sediment transport of sulfate particles at White Sands National Monument, NM]
- 12.110/12.465. Sedimentary Geology, Fall 2004.
- 12.452. Depositional Mechanics, Spring 2004.
- 12.090. Experimental Investigations of the Charles River, Spring 2003, course development funded by a **D'Arbeloff Award for Excellence in Education,** MIT.

- 12.159/12.459. Sedimentary and Surficial Geological Investigations. co-taught with J. Grotzinger, Spring 2003. [studied development of carbonate tidal flat on Andros Island, The Bahamas]
- 12.464. Seminar in Sedimentary Geology. co-taught with J. Grotzinger, Spring 2003.
- 12.130/12.465. Sedimentary Aquifers. co-taught with J. Grotzinger, Fall 2002.
- 12.464. Seminar in Sedimentary Geology. co-taught with J. Grotzinger, Fall 2002.
- 12.459. Sedimentary and Surficial Geological Investigations. co-taught with K. Whipple, Spring 2002. [studied possible control of groundwater sapping on channel development in south-central Utah]
- 12.457. Sedimentary Basins. co-taught with L. Royden and J. Grotzinger, Spring 2002.
- 12.464. Seminar in Sedimentary Geology. co-taught with J. Grotzinger, Spring 2002.

Other

- Co-leader, New Graduate Student Field Trip, August 14 – 15, 2023
- Co-leader, The NeoGeo Trip for entering Jackson School Undergraduates, August 26, 2023
- Co-leader, New Graduate Student Field Trip, August 15 – 16, 2022
- Co-leader, New Graduate Student Field Trip, August 16 – 17, 2021
- Co-leader, New Graduate Student Field Trip, August 21 – 22, 2017
- Instructor, 2017 Summer Institute on Earth-surface Dynamics, hosted by the National Center for Earth-surface Dynamics 2, St. Anthony Falls Laboratory, University of Minnesota – Twin Cities, August 2017
- Co-leader, The NeoGeo Trip for entering Jackson School Undergraduates, August 22 – 23, 2016
- Instructor, 2015 Summer Institute on Earth-surface Dynamics, hosted by the National Center for Earth-surface Dynamics 2, Tulane University, New Orleans, Louisiana, August 2015
- Instructor, 2013 Summer Institute on Earth-surface Dynamics, hosted by the National Center for Earth-surface Dynamics 2, St. Anthony Falls Laboratory, University of Minnesota – Twin Cities, August 2013
- Co-leader, New Graduate Student Field Trip, August 20 – 21, 2012
- Co-leader, New Graduate Student Field Trip, August 15 – 16, 2011
- Co-leader, New Graduate Student Field Trip, August 16 – 17, 2010
- Co-leader, New Graduate Student Field Trip, August 18 – 19, 2009
- Co-leader, The NeoGeo Trip for entering Jackson School Undergraduates, August 24 – 25, 2009
- ExxonMobil Instructor, 1997 – 2001. Averaged 3 one-week short courses per year. Approximately 100 earth scientists and engineers enrolled per year in these courses, which were part of the continuing education program for employees of the corporation and its affiliates. A principal component of my instruction involved the application of sediment-transport and environmental fluid mechanics to interpreting and predicting erosional and depositional patterns from the shelf edge to continental slope and basin floor. The courses integrated stratigraphic fieldwork, core interpretation, and numerical and laboratory studies.