JULIA S. REECE

Associate Professor
Department of Geology and Geophysics, Texas A&M University
MS 3115 TAMU, College Station, TX 77843
(979) 458-2728 | jreece@tamu.edu | www.reecesedimentmechanics.com
ORCID: 0000-0003-3521-8520 | Researcher ID: H-8743-2012

RESEARCH STATEMENT

My research integrates the fields of marine geology and sediment mechanics and is focused on the mechanical, physical, and chemical processes in ocean sediments, particularly at the interface of lithosphere, hydrosphere, and biosphere. Research interests include the mechanics and transport properties of ocean sediments, subsurface pressures/stresses and fluid flow, submarine landslides, as well as physical and chemical diagenesis. I use scientific ocean drilling samples and data and employ a suite of laboratory techniques including sedimentological and geotechnical experimentation (grain size, Atterberg Limits, uniaxial consolidation) and micro-scale imaging techniques (petrographic and scanning electron microscopy). Research areas include the South Atlantic Ocean, Gulf of Mexico, Nankai Trough offshore Japan, and west coast of Africa. I am currently expanding my research interests and collaborations to the field planetary geology and collaborations with NASA.

EDUCATION

2011 **Ph.D. in Geosciences**, The University of Texas at Austin, Austin, TX
Dissertation title: *Compression and permeability behavior of natural mudstones*
Advisor: Dr. Peter Flemings

2006 **Diplom (M.S.) Geosciences**, University of Bremen, Bremen, Germany
Thesis title: *Numerische Simulation von Fluidbewegungen im obersten Sedimentstockwerk in Abhängigkeit von physikalischen Sedimenteigenschaften*
Advisor: Dr. Katrin Huhn

2004 **B.S. Geosciences**, University of Bremen, Bremen, Germany
Thesis title: *Sedimentationsprozesse am Kontinentalrand nördlich von Spitzbergen: Rekonstruktion nach Logging-Daten*
Advisors: Drs. Tobias Mörz and Rüdiger Stein

ACADEMIC APPOINTMENTS

2022 – present **Associate Professor**, Dept. of Geology and Geophysics, Texas A&M University
2014 – 2022 **Assistant Professor**, Dept. of Geology and Geophysics, Texas A&M University
2013 – 2014 **Postdoctoral Scholar**, Dept. of Geophysics, Stanford University
2012 – 2013 **Postdoctoral Fellow**, Bureau of Economic Geology, The University of Texas at Austin
2006 – 2011 **Graduate Research and Teaching Assistant**, Jackson School of Geosciences, The University of Texas at Austin
2007 **Summer Intern**, Shell International Exploration and Production, Inc., Houston, TX
2004 – 2006 **Graduate Student Assistant**, Department of Geosciences, University of Bremen
2001 – 2004 **Undergraduate Student Assistant**, Department of Geosciences, University of Bremen

AWARDS & FELLOWSHIPS

2021 Dean's Distinguished Achievement Award for Excellence in Teaching ($1,200)
2020 – 2025 NSF CAREER Award

2019 – 2020	TAMU Montague - Center for Teaching Excellence Scholar ($6,500)
2018 – 2019	IODP Ocean Discovery Lecturer
2012	Author Achievement Award, Bureau of Economic Geology, UT Austin
2011	Best JSG Student Paper Award, UT Austin, Dept. of Geological Science
2011	Best Ph.D. technical talk, UT Austin, Dept. of Geological Science
2011	Ewing/Worzel Fellowship, UT Institute for Geophysics
2010	AGU Outstanding Student Paper Award (AGU Fall Meeting)
2010 – 2011	IODP Schlanger Ocean Drilling Fellowship, Consortium for Ocean Leadership ($28,000)
2010	Outstanding Teaching Assistant Award, UT Austin, Dept. of Geological Science
2009	Hess Fellowship
2008	Ewing/Worzel Fellowship, The University of Texas at Austin Institute for Geophysics
2008	Chevron Excellence Award
2008	Ewing/Worzel Fellowship, The University of Texas at Austin Institute for Geophysics
2007	Chevron Excellence Award
2007	ConocoPhillips Distinguished GeoFluids Fellowship

RESEARCH GRANT HISTORY
Federal Funding

In Preparation / Pending

09/2025 – 08/2029 *RAISE: Advancing U.S. Workforce Development in Scientific Ocean Drilling Through Cross-Institutional Partnerships*, National Science Foundation: P.I. Kusali Gamage (Austin Community College), Co-P.I. **J.S. Reece** (TAMU), Co-P.I. Hugh Daigle (UT Austin). $1,000,000 total; $270,149 (TAMU). Originally submitted 03/21/2024 with title *RAISE: Access to Scientific Ocean Drilling Research for Two-Year Colleges Through Cross-Institutional Collaboration* for an award period of 09/2024 – 08/2028, withdrawn on 03/14/2025 after discussion with NSF, to be resubmitted in revised form in mid-April 2025.

Funded Grants

04/2023 – 12/2024 *Post-Expedition Activity (PEA) Proposal for IODP Expeditions 390/393: Pore fluid pressures and fluid flow processes in sediments along the South Atlantic Transect*, National Science Foundation, US Science Support Office, Columbia University: P.I. **J. Reece** (TAMU). $20,000. Submitted 10/13/2022.

04/2022 – 02/2025 *Participation of Julia Reece as co-chief scientist on IODP Expedition 393*, National Science Foundation, US Science Support Office, Columbia University: P.I. **J. Reece** (TAMU). $114,565. Submitted 03/04/2022.

04/2022 – 08/2022 *Full proposal for multidisciplinary IODP investigations along a crustal flow-line across the western flank of the southern Mid-Atlantic Ridge: The South Atlantic Transect (3 submissions: 853 Full, Full-2, Full-2 Add.)*, National Science Foundation, International Ocean Discovery Program (IODP): Principal Lead Proponent R. Coggon (Univ. of Southampton), Data Lead Proponent R. Reece (TAMU), Proponents G. Christeson (Univ. of Texas Inst. for Geophysics), D. Teagle (Univ. of Southampton), B. K. Reese (TAMU

Corpus Christi), J. Sylvan (TAMU), M. Leckie (Univ. of Massachusetts), N. Hayman (Univ. of Texas Inst. for Geophysics), J. Zachos (Univ. of Calif. Santa Cruz), B. Briggs (Univ. of Alaska Anchorage), M. Huber (Univ. of New Hampshire), **J. Reece** (TAMU), S. Rausch (Univ. of Bremen), J. Kirkpatrick (Univ. of Rhode Island), M. Harris (Univ. of Plymouth), D. Thomas (TAMU), M. Katz (Rensselaer Polytechnic Inst.), C. Lowery (Univ. of Texas Inst. for Geophysics), C. Heil (Univ. of Rhode Island), and W. Gilhooly (Indiana Univ. Purdue Univ.). No funding requested. Submitted 10/03/2016. ***IODP Expeditions 390 and 393 were completed between April – August 2022 with J. Reece as co-chief scientist on IODP Exp. 393.***

06/2020 – 05/2025 *CAREER: Microfossils as Drivers for Submarine Landslides?*, National Science Foundation, Ocean Sciences: P.I. **J. Reece** (TAMU). $526,054. Submitted 07/19/2019.

09/2015 – 08/2019 *Effects of microbial activity on mechanical and transport properties of mudstones*, American Chemical Society - Petroleum Research Fund - Doctoral New Investigator: P.I. **J. Reece** (TAMU). $110,000. Submitted 09/01/2014.

09/2010 – 08/2011 *Resedimentation of Nankai mudstones to illuminate lithologic control on permeability and compressibility*, National Science Foundation, Consortium for Ocean Leadership, Schlanger Ocean Drilling Fellowship Award: P.I. **J. Schneider** (Univ. of Texas), Ph.D. Supervisor P. Flemings (Univ. of Texas). $28,000. Submitted 11/13/2009.

Declined Grants

09/2017 – 08/2020 *Collaborative Research: The effect of earthquake energy on consolidation and shear strength of continental slope sediments: Testing the 'seismic strengthening' hypothesis,* National Science Foundation: P.I. D. Sawyer (Ohio State Univ.), Co-P.I. **J. Reece** (TAMU). $440,886 total; $245,604 (TAMU), $195,282 (Ohio State Univ.). Submitted 08/15/2016.

TBD *Neogene to Quaternary climate, sedimentation, and ocean productivity along the NW African continental margin (3 submissions: 933 Pre, Full, Full-2)*, NSF, International Ocean Discovery Program (IODP): Principal Lead Proponent T. Bickert (Univ. of Bremen), Data Lead Proponent S. Krastel (Univ. of Kiel), Proponents I. Bouimetarhan (Univ. of Bremen), A. J. Crocker (Univ. of Southampton), P. deMenocal (Columbia Univ.), L. Dupont (Univ. of Bremen), A. Georgiopoulou (Univ. of Brighton), T. D. Herbert (Brown Univ.), A. N. Meckler (Univ. of Bergen), S. Mulitza (Univ. of Bremen), **J. Reece** (TAMU), O. Romero (Univ. of Bremen), E. Schefuß (Univ. of Bremen), T. Schwenk (Univ. of Bremen), P. J. Talling (Univ. of Durham), M. Urlaub (GEOMAR), T. Westerhold (Univ. of Bremen), P. A. Wilson (Univ. of Southampton). No funding requested. Submitted 03/31/2019.

TBD *The Role of Pressure and Temperature in Retrogressive Landslides in the Western North Atlantic (930-Full)*, NSF, International Ocean Discovery Program (IODP): Principal Lead Proponent D. Sawyer (Ohio State Univ.), Data Lead Proponent J. Hill (USGS), Proponents R. Colwell (Oregon State Univ.), A. Cook (Ohio State Univ.), W. Fortin

(Columbia Univ.), M. Hornbach (Southern Methodist Univ.), S. Klasek (Oregon State Univ.), N. Miller (USGS), M. Nikolinakou (Univ. of Texas), A. Portnov (Ohio State Univ.), **J. Reece** (TAMU), J. Schnyder (Univ. of Miami), N. Slowey (TAMU), B. Phrampus (Oregon State Univ.), J. Gibson (Columbia Univ.), C. Jackson (Imperial College London), J. Chaytor (USGS). No funding requested. Submitted 04/02/2018.

Texas A&M Research Funding

Funded Grants

08/2022 – 08/2023 *Overcoming student disengagement through purposefully engaged faculty: A critical friend self-study*, College of Arts and Sciences (Merging College Grant Proposal), Texas A&M University: P.I.s C. Laporte and S. Shields, Co-I.s J. Goodey-Pellois, A. Tag, J. Whitfield, A. Foran, A. Rao, T. Erukhimnova, R. Schlegel, J. Ray Herzogenrath, T. Pantuso, M. Eide, **J. Reece**, C. Wiederwohl, D. Sparks. $10,000 total. Submitted 04/29/2022.

01/2020 – 12/2021 *Geomaterial characterization of lunar simulants with agglutinate particles*, T3, Triads for Transformation, Texas A&M University: P.I. **J. Reece** (TAMU), Co-P.I.s B. Birgisson (TAMU), Y. Deng (TAMU). $32,000 total. Submitted 12/06/2019.

Declined Grants

08/2019 – 07/2022 *Environmental disturbance and ecological response on the Texas coast: Building resilience via lessons from the past (3 submissions: pre-proposal, one-pager, and full proposal)*, X-Grant Round 2, Texas A&M University: P.I. C. Belanger (TAMU), Co-P.I.s P. van Hengstum (TAMU), T. Dellapenna (TAMU), Y. Zhang (TAMU), H. Thakar (TAMU), D. Retchless (TAMU), A. Armitage (TAMU), R. Eytan (TAMU), E. Grossman (TAMU), K. Kaiser (TAMU), F. Marcantonio (TAMU), N. Perez (TAMU), A. Quigg (TAMU), **J. Reece** (TAMU), D. Roelke (TAMU), A. Ross (TAMU), C. Thompson (TAMU). $1,500,000 total; $16,526 (Reece). Submitted 05/06/2019.

08/2018 – 07/2020 *The Future of Texas: Building future resiliency by diagnosing the drivers and recurrence of Hurricanes, Hypoxia, and Hydroclimate (superfloods vs. megadroughts) over the last 3000 years (2 submissions: pre-proposal and one-pager)*, X-Grant Round 1, Texas A&M University: P.I. P. van Hengstum (TAMUG), Co-P.I.s T. Dellapenna (TAMUG), R. Eytan (TAMUG), E. Grossman (TAMU), C. Belanger (TAMU), N. Perez (TAMU), **J. Reece** (TAMU), F. Marcantonio (TAMU), Y. Zhang (TAMU), D. Roelke (TAMU). $ TBD. Submitted 04/02/2018.

Texas A&M Teaching/Mentoring Funding

Spring 2024 *Travel grant for Matthew Andonov to attend and present at the 2nd post-expedition meeting for IODP Expeditions 390 & 393 in Reykjavik, Iceland in May 2024*, TAMU College of Arts and Sciences, Undergraduate Research Program – Call for Faculty Proposals, P.I. **J. Reece**, $1,900.

Fall 2023	*Travel grant for Matthew Andonov to attend and present at the American Geophysical Union (AGU) Fall Meeting in San Francisco in December 2023,* TAMU College of Arts and Sciences, Undergraduate Research Request for Proposals, P.I. **J. Reece**, $2,385.
2021	TAMU College of Geosciences, Dean's Distinguished Achievement Award for Excellence in Teaching, P.I. **J. Reece**, $1,200.
2019	TAMU Montague – Center for Teaching Excellence Scholar, P.I. **J. Reece**, $6,500.
Fall 2016	*Understanding mechanical behavior of mudrock mixtures,* TAMU College of Geosciences, High Impact Learning Experiences (HILE) for Undergraduate Research, P.I. **J. Reece**, $1,200
Fall 2016	*Travel grant for Melissa Altobelli to attend and present at the American Geophysical Union (AGU) Fall Meeting in San Francisco in December 2016,* TAMU College of Geosciences, High Impact Learning Experiences (HILE) for Undergraduate Research, P.I. **J. Reece**, $600
Spring 2016	*Heterogeneities in mudstones,* TAMU College of Geosciences, High Impact Learning Experiences (HILE) for Undergraduate Research, P.I. **J. Reece**, $600
Spring 2016	*Relationship between porosity, sorting, and stress in IODP cores,* TAMU College of Geosciences, High Impact Learning Experiences (HILE) for Undergraduate Research, P.I. **J. Reece**, $600

PUBLICATIONS

(**Graduate student advisee*)

Researcher ID: H-8743-2012; Google Scholar H-index: 12; Total Citations: 715

Submitted or in review/revision

[39] Jin, X., Ma, X., Jiang, X., Dinarès-Turell, J., Ma, W., Du, J., Liu, F., Liu, C., and the **South Atlantic Transect IODP Expeditions 390 & 393 Scientists** (in review), The Late Miocene Ocean Carbon Cycle Changes: New Evidence from IODP Expeditions in the South Atlantic, *Paleoceanography and Paleoclimatology*. *Reece reviewed the manuscript and led science efforts during seagoing expedition that produced part of the data.*

[38] Tsang, M.-Y., Ijiri, A., Leavitt, W., Yamamoto, Y., Ishibashi, J.-i., Coggon, R.M., Sylvan, J.B., **Reece, J.S.**, Teagle, D.A.H., Christeson, G.L., Estes, E.R., Williams, T.J., and the South Atlantic Transect IODP Expedition 390/393 Scientists (in review), Stable carbon isotope ratios of dissolved inorganic carbon in sediment porewater of the Southern Mid-Atlantic Ridge (IODP Exp. 390/393), *Geochemical Journal*. *Reece reviewed the manuscript and led science efforts during seagoing expedition that produced part of the data.*

[37] Coggon, R., Carter, E.J., Grant, L., Evans, A.D., Lowery, C.M., Teagle, D.A.H., Kempton, P.D., Cooper, M., Routledge, C.M., Estep, J., Christeson, G.L., Sylvan, J.B., **Reece, J.S.**, Estes, E.R., Williams, T.J., and the IODP Expedition 390/393 Scientists (in revision). Talus breccias on slow spreading ocean crust host previously unrecognized carbon sink, *Nature Geoscience*. *Reece reviewed the manuscript and led science efforts during seagoing expedition that produced part of the data.*

[36] *Mills, N.T., **Reece, J.S.**, and Tice, M.M. (in review). Microbially induced smectite-to-illite transformation in natural sediments during laboratory compression, *Scientific Reports*. *Former graduate student is first author; major contributions from Reece in mentoring the research and editing the manuscript.*

Accepted or Published

[35] *Scott, W.K. and **Reece, J.S.** (2025). The influence of diatoms on hydromechanical properties of marine sediments. *Geochemistry, Geophysics, Geosystems, 26, e2024GC012064.* https://doi.org/10.1029/2024GC012064. *Graduate student is first author; major contributions from Reece in mentoring the research and editing the manuscript.*

[34] Borelli, C. Lowery, C.M., McIntyre, A., Routledge, C.M., Williams, T.J., and **IODP Expedition 390/393 Scientists** (2024). Data report: early Eocene-early Oligocene bulk carbon and oxygen stable isotope data, Sites U1557 and U1558, South Atlantic Transect, *In*: Coggon, R.M., Teagle, D.A.H., Sylvan, J.B., Reece, J., Estes, E.R., Williams, T.J., Christeson, G.L., and the Expedition 390/393 Scientists, South Atlantic Transect. *Proceedings of the International Ocean Discovery Program, 390/393*: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.390393.101.2024. *Reece reviewed the manuscript and led science efforts during seagoing expedition that produced part of the data.*

[33] Shchepetkina, A., Moal-Darrigade, P., Pekar, S., Williams, T.J., and the **IODP Expedition 390/393 Scientists** (2024). Estimating $CaCO_3$ content based on natural gamma ray (NGR) in deep-ocean sediment cores, *Stratigraphy, 21(3)*, Micropaleontology Press, Queens College, ISSN 1547-139X. https://doi.org/10.47894/stra.21.3.00. *Reece reviewed the manuscript, led science efforts during seagoing expedition, and provided feedback during the conception of the manuscript while at sea.*

[32] Jonnalagadda, M.K., Belgrano, T.M., Ryan, J.G., Kempton, P.D., Evans, A.D., Grant, L.J.C., Teagle, D.A.H., Coggon, R.M., **Reece, J.S.**, Sylvan, J.B., Williams, T.J., Estes, E.R. and Expedition 390/393 Scientists (2024). Data report: High downhole resolution portable XRF geochemistry of South Atlantic Transect basement cores, IODP Expeditions 390C, 395E, 390, and 393, *In*: Coggon, R.M., Teagle, D.A.H., Sylvan, J.B., Reece, J., Estes, E.R., Williams, T.J., Christeson, G.L., and the Expedition 390/393 Scientists, South Atlantic Transect. *Proceedings of the International Ocean Discovery Program, 390/393*: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.390393.101.2024. *Reece reviewed the manuscript and led science efforts during seagoing expedition that produced part of the data.*

[31] Grant, L.J.C., Evans, A.D., Coggon, R.M., Estep, J.D., McIntyre, A., Slagle, A., Widlansky, S.J., Albers, E., Harris, M., Teagle, D.A.H., Sylvan, J.B., **Reece, J.S.**, and Expedition 390/393 Scientists (2024). Data report: High resolution digital imaging of whole round hard rocks collected during IODP South Atlantic Transect Expeditions 390C, 395E, 390 and 393 using a DMT CoreScan3, *In*: Coggon, R.M., Teagle, D.A.H., Sylvan, J.B., Reece, J., Estes, E.R., Williams, T.J., Christeson, G.L., and the Expedition 390/393 Scientists, South Atlantic Transect. *Proceedings of the International Ocean Discovery Program, 390/393*: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.390393.209.2024. *Reece reviewed the manuscript and led science efforts during seagoing expedition that produced part of the data.*

[30] Amadori, C., Borreli, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M., Koorapati, R.K., Lam, A.R., Lowery, C.M., McIntyre, A., **Reece, J.**, Robustelli Test, C., Routledge, C.M., Standring, P., Sylvan, J., Thompson, M., Villa, A., Wang, Y., Wee, S.Y., Williams, T., Yeon, J., Teagle, D.A.H., Coggon, R.M., and the IODP Expedition 390/393 Scientists (2024). Data report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1560, South Atlantic Transect, *In*: Coggon, R.M., Teagle, D.A.H., Sylvan, J.B., Reece, J., Estes, E.R., Williams, T.J., Christeson, G.L., and the Expedition 390/393 Scientists, South Atlantic Transect. *Proceedings of the International Ocean Discovery Program, 390/393*: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.390393.205.2024. *Reece contributed to acquiring the data, reviewed the manuscript, and led science efforts during seagoing expedition.*

[29] Wang. Y., C. Amadori, C., Borreli, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M., Koorapati, R.K., Lam, A.R., Lowery, C.M., McIntyre, A., **Reece, J.**, Robustelli Test, C., Routledge, C.M., Standring, P., Sylvan, J., Thompson, M., Villa, A., Wee, S.Y., Williams, T., Yeon, J., Teagle, D.A.H., Coggon, R.M., and the IODP Expedition 390/393 Scientists (2024). Data report: X-Ray

Fluorescence Scanning of Sediment Cores, Site U1556, South Atlantic Transect, *In*: Coggon, R.M., Teagle, D.A.H., Sylvan, J.B., Reece, J., Estes, E.R., Williams, T.J., Christeson, G.L., and the Expedition 390/393 Scientists, South Atlantic Transect. *Proceedings of the International Ocean Discovery Program, 390/393*: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.390393.206.2024. *Reece contributed to acquiring the data, reviewed the manuscript, and led science efforts during seagoing expedition.*

[28] Villa, A., Amadori, C., Borreli, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M., Koorapati, R.K., Lam, A.R., Lowery, C.M., McIntyre, A., **Reece, J.**, Robustelli Test, C., Routledge, C.M., Standring, P., Sylvan, J., Thompson, M., Wang, Y., Wee, S.Y., Williams, T., Yeon, J., Teagle, D.A.H., Coggon, R.M., and the IODP Expedition 390/393 Scientists (2024). Data report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1558, South Atlantic Transect, *In*: Coggon, R.M., Teagle, D.A.H., Sylvan, J.B., Reece, J., Estes, E.R., Williams, T.J., Christeson, G.L., and the Expedition 390/393 Scientists, South Atlantic Transect. *Proceedings of the International Ocean Discovery Program, 390/393*: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.390393.203.2024. *Reece contributed to acquiring the data, reviewed the manuscript, and led science efforts during seagoing expedition.*

[27] Lowery, C.M., Amadori, C., Borreli, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M., Koorapati, R.K., Lam, A.R., McIntyre, A., **Reece, J.**, Robustelli Test, C., Routledge, C.M., Standring, P., Sylvan, J., Thompson, M., Villa, A., Wang, Y., Wee, S.Y., Williams, T., Yeon, J., Teagle, D.A.H., Coggon, R.M., and the IODP Expedition 390/393 Scientists (2024). Data report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1557, South Atlantic Transect, *In*: Coggon, R.M., Teagle, D.A.H., Sylvan, J.B., Reece, J., Estes, E.R., Williams, T.J., Christeson, G.L., and the Expedition 390/393 Scientists, South Atlantic Transect. *Proceedings of the International Ocean Discovery Program, 390/393*: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.390393.201.2024. *Reece contributed to acquiring the data, reviewed the manuscript, and led science efforts during seagoing expedition.*

[26] Routledge. C.M., C. Amadori, C., Borreli, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M., Koorapati, R.K., Lam, A.R., Lowery, C.M., McIntyre, A., **Reece, J.**, Robustelli Test, C., Standring, P., Sylvan, J., Thompson, M., Villa, A., Wang, Y., Wee, S.Y., Williams, T., Yeon, J., Teagle, D.A.H., Coggon, R.M., and the IODP Expedition 390/393 Scientists (2024). Data report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1561, South Atlantic Transect, *In*: Coggon, R.M., Teagle, D.A.H., Sylvan, J.B., Reece, J., Estes, E.R., Williams, T.J., Christeson, G.L., and the Expedition 390/393 Scientists, South Atlantic Transect. *Proceedings of the International Ocean Discovery Program, 390/393*: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.390393.207.2024. *Reece contributed to acquiring the data, reviewed the manuscript, and led science efforts during seagoing expedition.*

[25] Robustelli Test, C. Amadori, C., Borreli, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M., Koorapati, R.K., Lam, A.R., Lowery, C.M., McIntyre, A., **Reece, J.**, Routledge, C.M., Standring, P., Sylvan, J., Thompson, M., Villa, A., Wang, Y., Wee, S.Y., Williams, T., Yeon, J., Teagle, D.A.H., Coggon, R.M., and the IODP Expedition 390/393 Scientists (2024). Data report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1559, South Atlantic Transect, *In*: Coggon, R.M., Teagle, D.A.H., Sylvan, J.B., Reece, J., Estes, E.R., Williams, T.J., Christeson, G.L., and the Expedition 390/393 Scientists, South Atlantic Transect. *Proceedings of the International Ocean Discovery Program, 390/393*: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.390393.204.2024. *Reece contributed to acquiring the data, reviewed the manuscript, and led science efforts during seagoing expedition.*

[24] Lam, A., Amadori, C., Borreli, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M., Koorapati, R.K., Lowery, C.M., McIntyre, A., **Reece, J.**, Robustelli Test, C., Routledge, C.M., Standring, P., Sylvan, J., Thompson, M., Villa, A., Wang, Y., Wee, S.Y., Williams, T., Yeon, J., Teagle, D.A.H., Coggon, R.M., and the IODP Expedition 390/393 Scientists (2024). Data report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1583, South Atlantic Transect, *In*: Coggon, R.M., Teagle, D.A.H.,

Sylvan, J.B., Reece, J., Estes, E.R., Williams, T.J., Christeson, G.L., and the Expedition 390/393 Scientists, South Atlantic Transect. *Proceedings of the International Ocean Discovery Program, 390/393*: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.390393.202.2024. *Reece contributed to acquiring the data, reviewed the manuscript, and led science efforts during seagoing expedition.*

[23] Coggon, R.M., Teagle, D.A.H., Sylvan, J.B., **Reece, J.**, Estes, E.R., Williams, T.J., Christeson, G.L., and the Expedition 390/393 Scientists (2024). South Atlantic Transect. *Proceedings of the International Ocean Discovery Program*, 390/393, College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.390393.2024. *The co-chief scientists Coggon, Teagle, Sylvan, and Reece contributed equally with help from the expedition managers Estes and Williams and the shipboard scientists.*

[22] *Eakin, A.L., **Reece, J.S.**, Milliken, K.L., Locklair, R., Rathbun, A. (2023). Chemostratigraphic facies as indicators of cement diagenesis in mudrocks of the Permian Spraberry and Wolfcamp Formations, west Texas, *AAPG Bulletin, 107, 6, 863-886*, https://doi.org/10.1306/10242221142. *Former graduate student is first author; major contributions from Reece in mentoring the research and editing the manuscript.*

[21] Teagle, D.A.H., **Reece, J.**, Coggon, R.M., Sylvan, J.B., Christeson, G.L., Williams, T.J., Estes, E.R., and the Expedition 393 Scientists (2023). Expedition 393 Preliminary Report: South Atlantic Transect 2. *International Ocean Discovery Program*. https://doi.org/10.14379/iodp.pr.393.2023. *The co-chief scientists Teagle and Reece led the efforts with help from other co-chiefs Coggon and Sylvan and expedition managers Estes and Williams as well as the shipboard scientists.*

[20] Coggon, R.M., Sylvan, J.B., Teagle, D.A.H., **Reece, J.**, Christeson, G.L., Estes, E.R., Williams, T.J., and the Expedition 390 Scientists (2022). Expedition 390 Preliminary Report: South Atlantic Transect 1. *International Ocean Discovery Program*. https://doi.org/10.14379/iodp.pr.390.2022. *The co-chief scientists Coggon and Sylvan led the efforts with help from other co-chiefs Teagle and Reece and expedition managers Estes and Williams as well as the shipboard scientists.*

[19] Coggon, R.M., Sylvan, J.B., Teagle, D.A.H., **Reece, J.S.**, Christeson, G.L., Estes, E.R., and Williams, T. (2022). Expedition 390/393 Scientific Prospectus Addendum: South Atlantic Transect, *International Ocean Discovery Program*, https://doi.org/10.14379/iodp.sp.390393add.2022. *Coggon was the lead with contributions from other co-chief scientists including Reece and expedition managers.*

[18] *Mills, N.T., **Reece, J.S.**, Tice, M.M., Sylvan, J.B. (2022). Hydromechanical effects of micro-organisms on fine-grained sediments during early burial, *Earth and Space Science*, *9*, e2021EA002037, doi:10.1029/2021EA002037. *Former graduate student is first author; major contributions from Reece in mentoring the research and editing the manuscript.*

[17] **Reece, J.S.** (2021). The impact of grain size on the hydromechanical behavior of mudstones, *Geochemistry, Geophysics, Geosystems*, *22(8)*, e2021GC009732, doi:10.1029/2021GC009732. *Reece is sole contributor; performed experiments and wrote manuscript.*

[16] *Mills, N.T., **Reece, J.S.**, Tice, M.M. (2021). Clay minerals modulate early carbonate diagenesis, *Geology*, *49(8)*, 1015-1019, doi:10.1130/G48713.1. *Former graduate student is first author; major contributions from Reece in mentoring the research and editing the manuscript.*

[15] Daigle, H., **Reece, J.S.**, Flemings, P.B. (2020). A modified Swanson method to determine permeability from mercury intrusion data in marine muds, *Marine and Petroleum Geology*, *113*, doi:10.1016./j.marpetgeo.2019.104155. *Collaborative manuscript with Reece contributing data, writing, and editing of the manuscript.*

[14] Daigle, H., **Reece, J.S.**, Flemings, P.B. (2019). Evolution of the percolation threshold in muds and mudrocks during burial, *Geophysical Research Letters*, *46*, doi:10.1029/2019GL083723. *Collaborative manuscript with Reece contributing data, writing, and editing of the manuscript.*

[13] Casey, B., **Reece, J.S.**, Germaine, J.T. (2019). One-Dimensional Normal Compression Laws for Resedimented Mudrocks, *Marine and Petroleum Geology, 103,* 397-403, doi:10.1016/j.marpetgeo.2019.02.023. *Collaborative manuscript with Reece contributing data, writing, and editing of the manuscript.*

[12] Wu, W., **Reece, J.S.**, Gensterblum, Y., and Zoback, M.D. (2017). Permeability evolution of slowly slipping faults in shale reservoirs, *Geophysical Research Letters, 44,* doi:10.1002/2017GL075506. *Collaborative manuscript with Reece contributing data, writing, and editing of the manuscript.*

[11] Flemings, P.B., **Reece, J.S.**, Ditkof, J., Atkins, C.C., Sawyer, D.E. (2015). Data Report: Particle Size Analysis of Sediments in the Nankai Trough, IODP Expedition 319 Hole C009A, *In*: Saffer, D., McNeill, L., Byrne, T., Araki, E., Toczko, S., Eguchi, N., Takahashi, K., and the Expedition 319 Scientists, *Proc. IODP*, 319: Tokyo (Integrated Ocean Drilling Program Management International, Inc.), doi: 10.2204/iodp.proc.319.203.2015. *Reece mentored the student J. Ditkof in the collection of the data and reviewed the manuscript.*

[10] Daigle, H. and **Reece, J.S.** (2015). Permeability of two-component granular materials, *Transport in Porous Media*, Vol. 106, p. 523-544, doi:10.1007/s11242-014-0412-6. *Collaborative manuscript with Reece contributing data, writing, and editing of the manuscript.*

[9] Casey, B., Germaine, J.T., Flemings, P.B., **Reece, J.S.**, Gao, B., and Betts, W. (2013). Liquid limit as a predictor of mudrock permeability, *Marine and Petroleum Geology*, Vol. 44, p. 256-263, doi:10.1016/j.marpetgeo.2013.04.008. *Collaborative manuscript with Reece contributing data, writing, and editing of the manuscript.*

[8] **Reece, J.S.**, Flemings, P.B., and Germaine, J.T. (2013). Data Report: Permeability, compressibility, and microstructure of resedimented mudstone from IODP Expedition 322, Site C0011, *In*: Saito, S., Underwood, M.B., Kubo, Y., and the Expedition 322 Scientists, *Proc. IODP,* 322: Tokyo (Integrated Ocean Drilling Program Management International, Inc.), doi:10.2204/iodp.proc.322.205.2013. *Reece conducted the project, collected the data, and wrote the manuscript.*

[7] **Reece, J.S.,** Flemings, P.B., Dugan, B., Long, H., and Germaine, J.T. (2012). Permeability-porosity relationships of shallow mudstones in the Ursa Basin, northern deepwater Gulf of Mexico, *Journal of Geophysical Research – Solid Earth,* 117, B12102, doi:10.1029/2012JB009438. *Reece conducted the project, collected the data, and wrote the manuscript.*

[6] Day-Stirrat, R.J., Schleicher, A.M., **Schneider, J.**, Flemings, P.B., Germaine, J.T., van der Pluijm, B.A. (2011). Preferred orientation of phyllosilicates: Effects of composition and stress on resedimented mudstone microfabrics, *Journal of Structural Geology*, Vol. 33, No. 9, p. 1347-1358, doi:10.1016/j.jsg.2011.06.007. *Collaborative manuscript with Reece contributing data, writing, and editing of the manuscript.*

[5] **Schneider, J.**, Flemings, P.B., Day-Stirrat, R.J., Germaine, J.T. (2011). Insights into pore-scale controls on mudstone permeability through resedimentation experiments, *Geology*, Vol. 39, No. 11, p. 1011-1014, doi:10.1130/G32475.1. *Reece conducted the project, collected the data, and wrote the manuscript.*

[4] **Schneider, J.**, Flemings, P.B., Dugan, B., Long, H., and Germaine, J.T. (2009). Overpressure and consolidation near the seafloor of Brazos-Trinity Basin IV, Northwest Deepwater Gulf of Mexico, *Journal of Geophysical Research – Solid Earth*, 114, B05102, doi:10.1029/2008JB005922. *Reece conducted the project, collected the data, and wrote the manuscript.*

[3] Winkelmann, D., Geissler, W., **Schneider, J.**, Stein, R. (2008). Dynamics and timing of the Hinlopen/Yermak Megaslide north of Spitsbergen, Arctic Ocean, *Marine Geology*, 250, 34-50, doi:10.1016/j.margeo.2007.11.013. *Reece participated in the research expedition as student assistant.*

[2] Dugan, B., Flemings, P.B., Urgeles, R., Sawyer, D., Iturrino, G.J., Moore, J.C., **Schneider, J.** (2007). Physical Properties of Mass Transport Complexes in the Ursa Region, Northern Gulf of Mexico (IODP Expedition 308) Determined from Log, Core, and Seismic Data, *Proceedings 2007 Offshore Technology Conference*: Paper OTC 18704. *Reece participated in the research expedition as student assistant.*

[1] Behrmann, J.H.., Flemings, P.B., John, C.M., and the IODP Expedition 308 Scientists (2006). Rapid Sedimentation, Overpressure, and Focused Fluid Flow, Gulf of Mexico Continental Margin, *Scientific Drilling*, 3, September. *Reece participated in the research expedition as student assistant.*

In preparation

[41] *Scott, W., **Reece, J.S.** (in prep.). Consolidated-undrained shear behavior of diatomaceous mudstone: Implications for submarine slope failure. *JGR – Solid Earth. Graduate student is first author; major contributions from Reece in mentoring the research and editing the manuscript*

[40] Fitzgerald, B., Sawyer, D.E., **Reece, J.S.**, *Scott, W. (in prep.). Shear strength development during early burial on seismically active margins: A geotechnical investigation into seismic strengthening. *JGR – Solid Earth. Resedimentation experiments were performed in Reece's Sediment Mechanics Laboratory under the guidance of me and my graduate student Scott. Reece edited the manuscript.*

TEACHING

Texas A&M University

Professor: GEOL 489, Geofluids, undergraduate 2021 - present

Spring 2025 (offered as stacked course), 7 students, evaluation: N/A
Spring 2021 (offered as stacked course), 3 students, evaluation: N/A
This course provides the technical foundation and physical insight to explore quantitatively how fluids drive fundamental geologic processes in sedimentary basins. Students characterize stresses and pressures in sedimentary basins, learn about different compression models, and explore the origin of overpressure and generation of submarine landslides. Problems addressed include how sedimentation generates overpressure, how hydrocarbons are trapped in the subsurface, how mud volcanoes form, and how submarine landslides are generated. This course was offered at the undergraduate level as a stacked course for the first time in Spring 2021. Reece adapted the graduate version of this course (which she developed) by modifying the deliverables, learning outcomes, and grading policy accordingly. In spring 2025, a field trip to the Guadalupe Mountains will be offered for the first time.

Professor: GEOL 210, Geological Communication, undergraduate 2019 - present

Fall 2024, 23 students, evaluation: N/A
Fall 2023, 23 students, evaluation: N/A
Spring 2023, 22 students, evaluation: N/A
Fall 2022, 25 students, evaluation: N/A
Spring 2022, 18 students, evaluation: N/A
Spring 2020, 24 students, evaluation: 4.61/5
Fall 2019, 26 students, evaluation: 4.25/5
This course is required for geology majors. It serves an introduction to communicating as a scientist, particularly in geological settings. Students learn how to use precise language, illuminating graphs, and correct mathematical and chemical symbols to describe geological observations and concepts in writing. The course also includes basic statistics to describe geological data and uncertainty and recognizing

scientific ethical dilemmas and plagiarism. It commonly has undergraduate students from varying levels. This course has been previously taught, but Reece has revised course content including lectures, in-class assignments, take-home assignments, and classroom activities.

Professor: GEOL 306, Introduction to Sedimentology and Stratigraphy, undergraduate 2015 - present

Fall 2023, 35 students, evaluation: N/A
Fall 2021, 57 students, evaluation: N/A
Fall 2020 (co-taught with Dr. Michael Pope), 38 students, evaluation: N/A
Fall 2019 (co-taught with Dr. Michael Pope), 64 students, evaluation: 4.87/5
Spring 2019 (co-taught with Dr. Michael Pope), 25 students, evaluation: 4.62/5
Fall 2018, 64 students, evaluation: 4.54/5
Fall 2017, 59 students, evaluation: 4.74/5
Fall 2016, 90 students, evaluation: 4.53/5
Fall 2015, 63 students, evaluation: 4.53/5

This junior level course is required for geology majors. It serves an introduction to concepts in sedimentology and stratigraphy. The course emphasizes identification, classification, and quantitative interpretations of modern and ancient sedimentary systems and applied stratigraphic principles within the context of Earth's geologic and biologic history. This course has been previously taught, but Reece has revised course content including lectures, laboratories, exams, classroom activities and demonstrations.

Professor: GEOL 311, Principles of Geological Writing (old curriculum), undergraduate 2014 - 2017

Spring 2017, 23 students, evaluation: 4.79/5
Fall 2014, 20 students, evaluation: 4.18/5

This course was offered under the old curriculum and provides guidance and experience in communicating geology. Students develop scientific writing skills emphasizing clear, concise, precise, accurate, direct, and original communication as well as apply research tools important for comprehensive, precise, and accurate scientific writing. This course has been previously taught, but Reece has revised course content including lectures and assignments.

Professor: GEOL 632, Geofluids, graduate 2017 - present

Spring 2025 (offered as stacked course), 3 students
Spring 2021 (offered as stacked course), 8 students, evaluation: N/A
Spring 2019, 5 students, evaluation: 4.47/5
Spring 2017 (co-taught with Dr. Ursula Hammes, Adjunct Prof. at TAMU), 8 students, evaluation: 4.57/5

This course provides the technical foundation and physical insight to explore quantitatively how fluids drive fundamental geologic processes in sedimentary basins. Students will characterize stresses and pressures in sedimentary basins, learn about different compression models, and explore the origin of overpressure and generation of submarine landslides. Problems addressed include how sedimentation generates overpressure, how hydrocarbons are trapped in the subsurface, how mud volcanoes form, and how submarine landslides are generated. This is a course that Reece developed from scratch. In spring 2025, a field trip to the Guadalupe Mountains will be offered for the first time.

Professor: GEOL 491, Undergraduate Geology Research Course, undergraduate 2015 - present

Spring 2025, 2 students Spring 2020, 7 students

Fall 2024, 2 students
Spring 2024, 2 students
Fall 2023, 4 students
Spring 2023, 4 students
Fall 2022, 3 students
Spring 2022, 3 students
Fall 2021, 3 students
Summer 2021, 3 students
Spring 2021, 1 student
Fall 2020, 1 student
Fall 2019, 5 students
Summer 2019, 4 students
Spring 2019, 2 students
Summer 2018, 5 students
Fall 2017, 1 student
Spring 2017, 2 students
Fall 2016, 2 students
Spring 2016, 2 students
Spring 2015, 1 student

Reece has consistently integrated undergraduates into group research initiatives via this research course. Each student conducts a research project usually for at least a year. They help with the conception of initial science questions, perform laboratory experiments or literature reviews, and present results at the department research symposium and a national conference if possible and/or write a final report.

Co-instructor: GEOL 689, Shale Reservoir Workshop: Analyzing Organic-Rich Mudrocks From Basin to Nanoscale, graduate — 2016
Fall 2016 (lead instructor: Dr. Ursula Hammes, Adjunct Prof. at TAMU), 15 students, evaluation: 4.9/5

Guest lecturer: GEOL 180, Introduction to Geology & Geophysics, undergraduate — 2019 - present
Spring 2023, Fall 2022, Fall 2021, Spring 2021, Fall 2020, Spring 2020, Fall 2019, Spring 2019

Guest lecturer: GEOS 101, Seminar for Transfer Students, undergraduate — 2014 - 2017
Spring 2017, Fall 2016, Fall 2015, Fall 2014

Guest lecturer: GEOS 101, Introduction to the Geosciences, undergraduate — 2015
Fall 2015

Substitute lecturer: GEOL 306, Introduction to Sedimentology and Stratigraphy, undergraduate — 2016
Spring 2023 (1x), Spring 2016 (2x)

The University of Texas at Austin

Teaching assistant: GEO 382D, Crustal Geofluids, graduate — 2011
Spring 2011

Graduate teaching assistant: GEO 330K, Energy Exploration, undergraduate — 2010
Spring 2010

STUDENT ADVISING

(**graduated, ♣unofficial*)

Graduate Students

Name	Supervision	Institution	Degree	Role	Progress to Degree or Current Position
Victor Towoju	08/24 – present	TAMU G&G	Ph.D.	Chair	
Rostislav Kovtun	08/24 – present	TAMU G&G	Ph.D.	Chair	

Kashauna Mason	05/24 – present	TAMU G&G	Ph.D.	Chair	change in advisor
Mary Thompson	08/22 – present	TAMU G&G	M.S.	Chair	1 yr medical leave, exp. grad. in Summer ‘25
Lauren Berger	05/22 – present	TAMU G&G	Ph.D.	Chair	change in advisor
Mark Zablocki	07/21 – present	Tufts Univ.	Ph.D.	Member	exp. grad. in Spring ‘25
Wyatt Scott	08/20 – present	TAMU G&G	Ph.D.	Chair	exp. grad. in Fall ‘25
Alexander Ferrell	08/19 – present	TAMU G&G	M.S.	Co-Chair	readmitted for Spring ‘25
Jessica McKay	05/20 – ??/21	TAMU G&G	Ph.D.	Member	
*Maria Gutierrez A.	08/18 – 08/24	TAMU G&G	Ph.D.	Member	
*Timothy Carpp	08/21 – 08/23	TAMU G&G	M.S.	Co-Chair	
*Kenton Fisher	12/20 – 2022	TAMU G&G	Ph.D.	Member	
Autumn Eakin	08/14 – 2022	TAMU G&G	Ph.D.	Chair	University of Wyoming
*N. Tanner Mills	08/15 – 12/21	TAMU G&G	Ph.D.	Chair	postdoc at UT Austin
C. Ryan Elmore	01/16 – 03/21	TAMU G&G	Ph.D.	Chair	business owner
*Clyde Findlay	01/18 – 12/20	TAMU G&G	Ph.D.	Member	
*Adnan Ashraf	03/17 – 06/18	TAMU CVEN	M.S.	Member	
*Nfn Ricardo	09/17 – 05/18	TAMU PETE	M.S.	Member	
*Noah Miller	06/17 – 10/17	TAMU G&G	M.S.	Member	
*Joshua DeVore	08/15 – 05/16	Ohio State Univ.	M.S.	Member♣	
*Dong Wang	12/14 – 12/16	TAMU CVEN	Ph.D.	Member	
*William Betts	03/13 – 05/14	UT Austin	M.S.	Member	

Undergraduate Students

Name	Supervision	Project or Current Position (if graduated)
Felipe Marchant	01/25 – present	Resedimentation of Icelandic lake sediments
Luke Horton	08/24 – present	Sedimentological properties of Cretaceous Lance Formation, WY
*Matthew Andonov	08/23 – 12/24	Porosity and compression trends along SAT (IODP Exp. 390 & 393)
Felipe Marchant	08/23 – 05/24	Resedimentation of Icelandic lake sediments
Trenton Heise	09/23 – 12/23	Resedimentation of diatom – sediment mixtures
*Andrew McGlothlin	08/22 – 12/23	Environmental Scientists at aci environmental consulting
*Samantha Dees	01/23 – 05/23	N/A
*Adriel Rivera	08/22 – 05/23	Compaction trends in South Atlantic Ocean sediments
*Braden Hoefer	06/21 – 05/23	Texas A&M University (M.S. student)
*Ethan Levine	06/21 – 05/22	Staff Geologist at Frost Geosciences INC
*Mary Thompson	01/20 – 07/22	Texas A&M University (M.S. student)
*Sarah Leavengood	01/20 – 05/20	N/A
*Katelyn Fannin	01/20 – 05/20	N/A
*Charles Babendreier	01/20 – 05/20	The University of Texas at Austin (graduate studies)
*Lucky Marchelino	08/19 – 05/20	Field Geologist at Atlas Energy Solutions
*B. Gunner Boler	08/19 – 05/20	Asset Development Geologist at Chevron
*Jesse Yeon	08/19 – 05/20	International Ocean Discovery Program, Gulf Coast Repository
*Schuyler Hoff	10/18 – 12/19	self-employed
*Michael Martinez	01/19 – 12/19	Chevron
*Wyatt Scott	01/19 – 12/19	Texas A&M University (Ph.D. student)

*Dennis Mmasa	01/17 – 12/17	Completions QC Specialist at Corva
*Melanie Bowen	08/16 – 12/17	ExxonMobil
*Travis Shackleton	01/16 – 08/16	Schlumberger
*Melissa Altobelli	01/16 – 12/16	ExxonMobil
*Clayton Goodspeed	08/15 – 05/16	Halliburton

AWARDS AND HONORS OF SUPERVISED STUDENTS

Internal (TAMU)

2024	Travel funds to attend 2nd post-expedition meeting for IODP Exp. 390/393 (College of Arts and Sciences)	Matthew Andonov
2024	2nd place, Undergraduate Research, TAMU Geol. & Geophys. Research Symp.	Felipe Marchant
2023	Travel funds to attend AGU Fall Meeting (College of Arts and Sciences)	Matthew Andonov
2021	Best student paper award, TAMU Geol. & Geophys.	Tanner Mills
2021	Lechner scholarship for outstanding academic achievement	Wyatt Scott
2018	1st place, PhD Research Poster, TAMU Geol. & Geophys. Research Symposium	Autumn Eakin
2017	1st place, PhD Completed Research, TAMU Geol. & Geophys. Research Symp.	Autumn Eakin
2016	2nd place, PhD Anticipated Research, TAMU Geol. & Geophys. Research Symp.	Tanner Mills
2016	3rd place, Undergraduate Research, TAMU Geol. & Geophys. Research Symp.	Melissa Altobelli
2015	1st place, PhD Anticipated Research, TAMU Geol. & Geophys. Research Symp.	Autumn Eakin

External

2024	NASA FINESST award (3 yrs of graduate research funding)	Lauren Berger
2024	Travel funds to attend 2nd post-expedition meeting for Exp. 390/393 (IODP)	Mary Thompson
2022	Travel funds to attend ECORD Magellan Plus Workshop (IODP)	Mary Thompson
2018	GSA Travel Grant ($125)	Tanner Mills
2017	GSA Travel Grant ($125)	Tanner Mills
2017	AAPG Grants-in-Aid Award ($3000)	Tanner Mills
2016 – 2017	Berg-Hughes Center Fellowship (BP)	Ryan Elmore
2015 – 2016	Berg-Hughes Center Fellowship (Saudi ARAMCO)	Tanner Mills

OTHER ACCOMPLISHMENTS OF SUPERVISED STUDENTS

2024	Full-time employment with Lamb-Star Engineering in Golden, Colorado	Matthew Andonov
2024	ANZIC Marine Geoscience Masterclass in Brisbane, Australia	Mary Thompson
2024	Internship with TDI Brooks	Luke Horton
2024	Summer Internship with Lunar and Planetary Institute	Lauren Berger
2024	10th Intern. Assoc. of Sedimentologists Summer School in Bonaire	Mary Thompson
2023	Summer Internship with EOG Resources	Wyatt Scott
2022	Secured postdoctoral position at UT Austin	Tanner Mills
2020	Secured academic job at Broward College (FL) as part of my service to AFF	Kieron Prince
2020	Summer Internship with EOG Resources	Wyatt Scott
2019	Geology & Geophysics Outstanding Senior Award	Michael Martinez
2019	Geology & Geophysics Outstanding Senior Award	Wyatt Scott
2018	Summer Internship with ConocoPhillips	Tanner Mills

2018	Spring Internship with ExxonMobil	Melanie Bowen
2017	Internship with ExxonMobil	Melissa Altobelli

POSTDOCTORAL AND VISITING SCHOLAR ADVISING

Name	Position	Supervision
Dr. Sebastian Cardona	TAMU GFF Postdoctoral Research Associate	09/21 – 03/22
Dr. Ursula Hammes	Michel T. Halbouty Visiting Professor	09/16 – 05/17

PROFESSIONAL SERVICE

Internal Service (TAMU)

Department of Geology and Geophysics

08/2023 – present	Chair of Graduate Admissions Committee
04/2023 – 05/2023	Graduate Student Scholarship Committee (substitute member)
01/2023 – 08/2023	Graduate Admissions Committee (member)
06/2021 – 12/2021	Instructional Assistant Professor Search Committee (member)
05/2021 – 03/2022	Tenure-Track Faculty Search Committee (liaison)
01/2020 – 08/2023	Department Faculty & Staff Awards Committee (member)
08/2019 – 11/2019	Berg Hughes Scholarship Committee (member)
01/2018 – 02/2020	Graduate Student Awards Committee (member)
09/2018 – 08/2019	Instructional Assistant Professor Search Committee (member)
01/2018 – 05/2018	Executive Committee (member)
03/2017 – 12/2017	Graduate Admissions Task Force for "Making the Graduate Program Better" (member)
02/2017 – 04/2017	Unconventional Resources Search Committee (member)
03/2016 – 05/2017	Berg-Hughes Center Fellowship Committee (member)
09/2015 – 12/2017	Graduate Admissions Committee (member)
09/2016 – 05/2017	Hosting Halbouty Visiting Chair Dr. Ursula Hammes (Hammes Energy & Consultants)

College of Arts & Sciences (Fall 2022 – present) / College of Geosciences (prior to Fall 2022)

08/2023 – present	Graduate Instruction Committee (non-voting member)
12/2019 – 09/2022	College Distinguished Achievement Awards Committee (member)
01/2019 – 11/2019	Strategic Planning Steering Committee (member)
10/2014 – 02/2015	Onboarding & Mentoring Taskforce (member)
10/2015 – 01/2016	New Geosciences Building – Scanning and Optical Microscopy Working Group (member)

Texas A&M University

09/2023 – 05/2024	Review Committee for the national Barry Goldwater Scholarship (member)
09/2022 – 12/2024	Official mentor for Brontë Heerdink as part of the Academy for Future Faculty (AFF) program *The Academy for Future Faculty is a program at TAMU that is part of the Center for the Integration of Research, Teaching, and Learning (CIRTL), an National Science Foundation Center for Learning and Teaching in higher education. The program's goals are to provide professional development for graduate students and post-docs in preparation for a career*

in higher education. Reece acts as official mentor for Heerdink through this program. She provides feedback on curriculum vitae, syllabus, teaching statement, research statement, and diversity statement.

10/2018 – 10/2019 Official mentor for Kieron Prince as part of the Academy for Future Faculty (AFF) program

External Service

Scientific Service

09/2018 – 05/2019 Ocean Discovery Lecture Series, International Ocean Discovery Program (IODP)
The Ocean Discovery Lecture Series (formerly the Distinguished Lecturer Series) is a renowned lecture series, in which about six distinguished lecturers per academic year speak at many institutions (~6-9) about their scientific results and discoveries related to IODP. The lecturer also acts as an advocate for IODP and teaches community colleges, museums, etc. about IODP. Reece visited 9 institutions over two semesters including a Museum of Arts and Sciences and a Community College.

10/2014 – 09/2017 Science Evaluation Panel (SEP), International Ocean Discovery Program (IODP)
SEP is an advisory body of the JOIDES Resolution Facility Board (JRFB) and primarily reviews drillings proposals to use the IODP drilling platforms. SEP meets twice a year. Reece reviewed up to 18 proposals per meeting and was responsible for the oral presentation or written report of one or two proposals per meeting.

Session Convener

12/2023 Co-Convener and Co-Chair (AGU Fall Meeting 2023)
12/2017 Co-Convener (AGU Fall Meeting 2017)

Judge

04/2025 Annual Geology & Geophysics Research Symposium, TAMU
04/2024 Annual Geology & Geophysics Research Symposium, TAMU
03/2018 Annual Geology & Geophysics Research Symposium, TAMU
03/2017 Annual Geology & Geophysics Research Symposium, TAMU
12/2016 Outstanding Student Paper Award (AGU Fall Meeting)
12/2014 Outstanding Student Paper Award (AGU Fall Meeting)
12/2012 Outstanding Student Paper Award (AGU Fall Meeting)
02/2012 Annual Jackson School Research Symposium, UT Austin

Organizer

01/2013 – 07/2013 Co-organizer of School of Earth Sciences Postdoc Seminar Series, Stanford University

Referee or Review Panelist

Peer reviewed journals:
Advances in Water Resources, American Association of Petroleum Geologists (AAPG), American Rock Mechanics Association (ARMA), Earth and Planetary Science Letters (EPSL), Geochemistry, Geophysics, Geosystems (G-cubed), Geology, Geophysical Research Letters (GRL), International Ocean Discovery Program

(IODP), Journal of Geophysical Research – Solid Earth (JGR), Marine and Petroleum Geology (MPG), Transport in Porous Media, Water Resources Research

Funding agencies (ad hoc reviewer and review panel):
American Chemical Society (ACS), Texas Academy of Science (TAS), National Science Foundation (NSF)

INVITED TALKS

2023 The South Atlantic Transect: Preliminary results from a multidisciplinary approach to investigate ridge-flank systems (IODP Expeditions 390C, 395E, 390, and 393), Department seminar talk and invited speaker at the 13th Annual Research Symposium, Department of Geology and Geophysics, Texas A&M University, April 21, 2023.

2021 The impact of grain size on the hydromechanical behavior of mudstones, Louisiana State University, Department of Geology and Geophysics, November 5, 2021.

2021 The impact of grain size on the hydromechanical behavior of mudstones, Oklahoma State University, Boone Pickens School of Geology, April 1, 2021 (online).

2019 Mud and Bugs Under Stress: Compression of Marine Sediments Beneath the Seafloor, Central Washington University, Ellensburg, Washington, May 3, 2019 (as part of IODP Distinguished Lecture Series)

2019 Mud and Bugs Under Stress: Compression of Marine Sediments Beneath the Seafloor, Southwest Oregon Community College, Coos Bay, Oregon, April 13, 2019 (as part of IODP Distinguished Lecture Series)

2019 Mud and Bugs Under Stress: Compression of Marine Sediments Beneath the Seafloor, Montana State University, Billings, Montana, March 28, 2019 (as part of IODP Distinguished Lecture Series)

2019 Mud and Bugs Under Stress: Compression of Marine Sediments Beneath the Seafloor, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, February 21, 2019 (as part of IODP Distinguished Lecture Series)

2018 Mud and Bugs Under Stress: Compression of Marine Sediments Beneath the Seafloor, Rowan University, Glassboro, New Jersey, November 15, 2018 (as part of IODP Distinguished Lecture Series)

2018 Mud and Bugs Under Stress: Compression of Marine Sediments Beneath the Seafloor, Museum of Arts and Sciences, Macon, Georgia, October 2, 2018 (as part of IODP Distinguished Lecture Series)

2018 Mud and Bugs Under Stress: Compression of Marine Sediments Beneath the Seafloor, University of Miami – Rosenstiel School of Marine and Atmospheric Science, Miami, Florida, October 1, 2018 (as part of IODP Distinguished Lecture Series)

2018 Mud and Bugs Under Stress: Compression of Marine Sediments Beneath the Seafloor, Mississippi State University, Starkville, Mississippi, September 6, 2018 (as part of IODP Distinguished Lecture Series)

2018 Mud and Bugs Under Stress: Compression of Marine Sediments Beneath the Seafloor, University of Louisiana at Lafayette, Lafayette, Louisiana, September 4, 2018 (as part of IODP Distinguished Lecture Series)

2017 Controls on hydromechanical properties of mudstones through scientific ocean drilling, University of Texas San Antonio, Department of Geological Sciences Seminar, Fall 2017

2015 Compressing natural mudstones: Controls on mechanical and fluid-flow properties, University of Georgia, Department of Geology Seminar, Fall 2015

2013 Multi-scale flow behavior in mudrocks, The Ohio State University, School of Earth Sciences seminar, Spring 2013

2013 Multi-scale flow behavior in mudrocks, Texas A&M University, Department of Geology and Geophysics, Spring 2013

2012 Impact of silt fraction on compressibility, permeability, and microstructure of natural mudstones, Stanford University, Department of Geophysics seminar, Fall 2012

PARTICIPATION IN WORKSHOPS

2024 Integrating Ocean Drilling and NASA Science: A workshop to explore missions to planet Earth, Washington, D.C., April 2-4

2024 Participation in webinar "Changing the academic culture around mental health" as part of the AGU Heads and Chairs Webinar Series, organized by AGI and AGU

2024 Participation as panelist on science exploration rotation and graduate school Q&A session as well as tour guide of my Sediment Mechanics Lab at the A-STEP student summit at IODP, TAMU

2022 Participation in a small, college-wide Unlearning Racism in Geoscience (URGE) pod

2021 Invited faculty member on panel about graduate school applications, organized by TAMU SEG student chapter

2021 Scientific Ocean Drilling IMPACT Mini-Workshop: Preparing the Next Generation, IODP
Mini-workshop to discuss the future of ocean discovery, scientific outreach, and preparing the next generation to participate in scientific ocean drilling. This workshop is in preparation for the in-person workshop (tentatively scheduled for Spring 2022).

2021 Addressing Equity and Inclusion in Mentoring, TAMU
TAMU workshop developed by the Center for the Improvement of Mentored Experiences in Research (CIMER) as part of the Summer Faculty Mentoring Academy.

2021 9th International Symposium on Subaqueous Mass Movements and Their Consequences (ISSMMTC) (online)
Due to the pandemic the conference, originally scheduled for summer 2020 in Dublin, Ireland, was delivered online. My students Wyatt Scott and Mary Thompson and I participated. The symposium was extremely relevant to my research funded by the NSF CAREER grant.

2021 Maintaining Effective Communication in Mentoring, TAMU
TAMU workshop developed by the Center for the Improvement of Mentored Experiences in Research (CIMER) as part of the Summer Faculty Mentoring Academy.

2020 Invited panelist on NSF CAREER Workshop, TAMU
TAMU panel organized by Research Development Services to help early career scientists become more competitive as NSF CAREER and other Young Investigator Program grant applicants.

2020 STRIDE Faculty Search Committee Training Workshop, TAMU
Interactive workshop providing strategies and tactics to recruit diverse faculty and minimize implicit bias.

2020 Invited panelist on NSF CAREER Workshop for Tenure-track Assistant Professors in the College of Agriculture and Life Sciences
TAMU panel organized by the College of Agriculture and Life Sciences to help early career scientists in the departments of that college become more competitive as NSF CAREER and other Young Investigator Program grant applicants.

2018 Leadership Development Program with Dr. Natemeyer, TAMU

TAMU workshop organized by and for the College of Geosciences to provide strategies to be an effective and well-communicating leader.

2017 International Ocean Discovery Program (IODP) proposal development workshop on Submarine Landslides, Southern Methodist University, Dallas, TX
IODP workshops are used to develop new drilling proposals. The drilling proposal "The Role of Pressure and Temperature in Retrogressive Landslides in the Western North Atlantic (930-Full)" was developed as a result of this workshop.

2017 NSF Career and Other Young Investigator Programs Seminar, TAMU
TAMU seminar organized by Research Development Services to help early career scientists become more competitive as NSF CAREER and other Young Investigator Program grant applicants.

2016 eCampus Assignments and Assessments, TAMU Instructional Technology Services
Informal and interactive workshop offered by the TAMU Instructional Technology Services focused on creating assignments and assessments in eCampus.

2016 Writing Good Exam Questions, TAMU Center for Teaching Excellence
Informal and interactive workshop offered by the Center for Teaching Excellence focused on writing good exam questions.

2015 Teaching Methods, TAMU Center for Teaching Excellence
Informal and interactive workshop offered by the Center for Teaching Excellence focused on teaching methods.

2015 Lecturing Well, TAMU Center for Teaching Excellence
Informal and interactive workshop offered by the Center for Teaching Excellence focused on lecturing well.

2014 ADVANCE Roadmap for a Successful Academic Career Workshop, TAMU
Interactive and dynamic workshop organized by the TAMU Advance Center for Women Faculty covering topics such as academic portfolios, teaching, research, service, work-life balance, and mentoring.

2013 IODP Workshop on Multidisciplinary Transect Drilling During Transits, TAMU
NSF workshop focused on multi and interdisciplinary transect drilling proposals to exploit the likely transits of the drillship between or within large basins. The drilling proposal "Full proposal for multidisciplinary IODP investigations along a crustal flow-line across the western flank of the southern Mid-Atlantic Ridge: The South Atlantic Transect (3 submissions: 853 Full, Full-2, Full-2 Add.)", which led to two scheduled expeditions, is a result of this workshop.

2012 Building U.S. Strategies for 2013-2023 Scientific Ocean Drilling, Denver, Colorado
NSF workshop for scientific drilling community to discuss the future scientific goals of the IODP program and to prioritize fourteen scientific challenges outlined in the 2013-2023 Science Plan and to identify new approaches for more efficient planning of drilling expeditions.

2009 Seabed Sediment Pore Pressure: Genesis, Measurement and Implications for Design/Analysis, Oslo, Norway

2008 Marie Curie Summer School on Aqueous and Porous Materials, Trèst, Czech Republic

2008 TEMIS 2D/3D (Basin Modeling), Beicip-Franlab, Houston, TX

2007 Soil Mechanics, Shell E&P, Houston, TX

FIELD ACTIVITIES

04/2025 – 04/2025	GEOL 489/632 Geofluids field trip to Guadalupe Mountains in West Texas and New Mexico
06/2022 – 08/2022	IODP Exp. 393, *R/V JOIDES Resolution*, South Atlantic Ocean, co-chief scientist
04/2016 – 04/2016	GEOL 609 *Field Geology*, Andros Island, Bahamas, assisted faculty
05/2005 – 07/2005	IODP Exp. 308, *R/V JOIDES Resolution*, Gulf of Mexico, sailed as sedimentologist
08/2004 – 10/2004	ARK XX/3, *R/V Polarstern*, Svalbard, Arctic Ocean, student research assistant
08/2002 – 09/2002	M54/2, *R/V Meteor*, Costa Rica, Nicaragua, student research assistant

COLLABORATORS

Rosalind Coggon (University of Southampton, UK); Hugh Daigle (UT Austin); Kusali Gamage (Austin Community College); John Germaine (Tufts University); Suhyun Kim (Pusan National University); Daisuke Kuwano (Chiba University); Marcin Latas (University College London); Paul Moal-Darrigade (University of Bordeaux); Jason Sylvan (TAMU); Michael Tice (TAMU); Damon Teagle (University of Southampton); Kiho Yang (Pusan National University)

OUTREACH ACTIVITIES

2024	Participation in Oceanography Career Panel at Indiana University (on Zoom), facilitated by Dr. Bill Gilhooly (October 17th)
2023	Publication of education resources including article "Can tiny fossils disrupt global communications" and associated activity sheet and PowerPoint Slides for teachers, Futurum Careers, January 11, 2023, (https://doi.org/10.33424/FUTURUM339)
2018	„Soda can" activity at College's GeoX event (June 14th)
2018	„Soda can" activity as outreach activity with Bryan High School students (April 27th)
2017	Outreach activity at the Brazos Valley Children's Museum (Oct. 7th)
2017	Outreach activity at College's GeoX event (June. 9th)
2017	Outreach activity along with College event hosting Coram Deo Academy (Feb. 3rd)

PROFESSIONAL AFFILIATIONS

2014 – 2016	Geological Society of America (GSA)
2013 – 2014	American Rock Mechanics Association (ARMA)
2011 – 2012	European Geosciences Union (EGU)
2010 – 2011	European Association of Geoscientists and Engineers (EAGE)
2005 – present	American Geophysical Union (AGU)

BOOK CHAPTERS

[1] Agarwal, A., Aird, T., Benson, S., Cameron, D., Druhan, J., Harris, J., Maher, K., **Reece, J.**, Vialle, S., Zahasky, C., Zaranonello, S., Zoback, M. (2015). Chapter 42: Overview of assessment of leakage detection and intervention scenarios for CO_2 sequestration, *In:* Gerdes, K.F. (editor), Carbon Dioxide Capture for Storage in Deep Geological Formations, Volume 4, CPL Press and BPCNAI, 964 pp.

NON-PEER-REVIEWED REPORTS

[7] Robustelli Test, C. and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023). Magnetic fingerprint of hydrothermal alteration across the South Atlantic subseafloor, Report for the Visiting Research Fellowship from the Institute for Rock Magnetism at the University of Minnesota.

[6] Benson, S., Harris, J., Maher, K., Zoback, M., Agarwal, A., Aird, T., Alshuhail, A., Druhan, J., **Reece, J.**, Strandli, C., Vialle, S., Zahasky, C. (2013). Assessment of leakage detection and intervention scenarios for CO2 sequestration. CCP3 Contingency Planning: White Paper on existing literature, Stanford Center for Carbon Storage, Stanford University.

[5] Aliyeva, S., Allan, A.M., Lopéz, H.S.A., Brown, J., Dahl, J.E.P., Das, I., Druhan, J., Dutta, P., Dvorkin, J., Ebert, Y., El Husseiny, A., Grana, D., Grombacher, D., Heller, R., Hol, S., Kanitpanyacharoen, W., Kobayashi, Y., Kohli, A., Konishi, C., Lin, Y., Maher, K., Mavko, G., Mukerji, T., Rassouli, F., **Reece, J.S.**, Saxena, N., Sen, A., Skurtveit, E., Tew, A., Vaorio, T., Vialle, S., Walsh, R., Walters, R., Xia, Y., Yang, A., and Zoback, M.D. (2013), Stanford Rock Physics & Borehole Geophysics Project, Vol. 133, Stanford University.

[4] Flemings, P.B., Germaine, J.T., Adams, A., Alberty, M., Betts, W., Bhandari, A.R., Casey, B., Coleff, D., Deirieh, A., Fahy, B., Gao, B., Hermanrud, C., Hurd, G., Luo, G., Marjanovic, J., Merrell, M., Meyer, D., Nikolinakou, M., **Reece, J.S.**, and You, Y. (2013). UT GeoFluids annual report to Industrial Associates for 2013: slide set 4, annual report prepared for Anadarko, BHP, BP, Chevron, ConocoPhillips, ExxonMobil, Hess Corp, Schlumberger, Shell, Statoil, Total, The University of Texas at Austin, Bureau of Economic Geology.

[3] Flemings, P.B., Germaine, J.T., Adams, A., Betts, W., Casey, B., Cronin, M., Day-Stirrat, R.J., Gao, B., Greeley, D., Horan, A., Katahara, K., Luo, G., Majanovic, J., Merrell, M., Nikolinakou, M., Polito, P., **Schneider, J.**, Smith, A., You, Y. (2012). UT GeoFluids annual report to Industrial Associates for 2012: slide set 3, The University of Texas at Austin, Bureau of Economic Geology, annual report prepared for Anadarko, BHP, BP, Chevron, ConocoPhillips, ExxonMobil, Hess Corp, Schlumberger, Shell, Statoil, Total (23 presentations), Online

[2] Flemings, P.B., Germaine, J.T., Adams, A., Betts, W., Braunscheidel, M., Casey, B., Day-Stirrat, R.J., Gao, B., Heppard, P., Horan, A., Luo, G., Majanovic, J., Merrell, M., Nikolinakou, M., Sawyer, D.E., Sayers, C., **Schneider, J.**, Smith, A., You, Y. (2011). UT GeoFluids annual report to Industrial Associates for 2011: slide set 2, The University of Texas at Austin, Bureau of Economic Geology, annual report prepared for Anadarko, BHP, BP, Chevron, ConocoPhillips, ExxonMobil, Hess Corp, Schlumberger, Shell, Statoil, Total (26 presentations), Online

[1] Flemings, P.B., Germaine, J.T., Basin, T., Braunscheidel, M., Darnell, K., Day-Stirrat, R.J., Hudec, M.R., Luo, G., Nikolinakou, M., Sawyer, D.E., **Schneider, J.**, You, Y. (2010). UT GeoFluids annual report to Industrial Associates for 2010: slide set 1, The University of Texas at Austin, Bureau of Economic Geology, annual report prepared for Anadarko, BHP, BP, Chevron, ConocoPhillips, Devon, ExxonMobil, Hess Corp, Schlumberger, Shell (22 presentations), Online

CONFERENCE ABSTRACTS/ PRESENTATIONS

(°*undergraduate student advisee*, **graduate student advisee*, † *postdoc advisee*)

2025

[124] °Horton, L. and **Reece, J.S.** (2025), Sedimentological and paleontological analysis of a sandstone sample from the Lance Formation of Eastern Wyoming, to be presented at the 15th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 4.

[123] *Berger, L.M., Nachon, M., **Reece, J.**, Ewing, R.C. (2025), The global spatial distribution of compound dunes on Mars, to be presented at the 15th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 4.

[122] *Towoju, V., **Reece, J.**, Childress, L. (2025), Assessing variations in physical properties of marine sediments, to be presented at the 15th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 4.

[121] *Thompson, M., **Reece, J.**, Kim, S., Yang, K., and the South Atlantic Transect IODP Expedition 390 & 393 Scientists (2025), Geomechanical properties in the sediment column of the South Atlantic Ocean basin at 31 degrees South, to be presented at the 15th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 4.

[120] °Marchant, F., **Reece, J.S.**, Thorpe, M.T. (2025), Comparing modern sediments with ancient rock record of Mars through resedimentation, to be presented at the 15th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 4.

[119] *Berger, L.M., Nachon, M., **Reece, J.**, Ewing, R.C. (2025), The global spatial distribution of compound dunes on Mars, to be presented at the 8th International Planetary Dunes Workshop, Alghero, Sardinia, Italy, May 19-22.

[118] Yaginuma, S., Aizawa, M., Kim, S., Yang, K., Shinjo, R., Song, K.-H., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2025), The temporal variation of Sr-Nd isotopic composition through Cenozoic recorded in subseafloor sediment core from south Atlantic Ocean, to be presented at 2025 Japan Geoscience Union Meeting, May 25-30.

2024

[117] Koorapati, R.K., Lam, A.R., Guerin, G., Yeon, J., Kuwano, D., Teagle, D.A.H., **Reece, J.S.**, Coggon, R.M., Sylvan, J.B., Williams, T., and Estes, E.R. (2024), Middle Miocene paleoenvironmental changes in the South Atlantic region – a multiproxy reconstruction, presented at 2024 Fall Meeting, AGU, Washington D.C., December 9-13.

[116] Lu, W., Hess, A.V., Oppo, D.W., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2024), Deep-sea temperature change in the South Atlantic during the last deglaciation, presented at 2024 Fall Meeting, AGU, Washington D.C., December 9-13.

[115] Standring, P., Ketcham, R., Kearns, L., Borrelli, C., Lowery, C., Martindale, R., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2024), Application of micro-computed tomography scanning of planktic and benthic foraminifera as a proxy for carbonate dissolution from the Late Eocene to Early Oligocene, presented at 2024 Fall Meeting, AGU, Washington D.C., December 9-13.

[114] Standring, P., Lowery, C., Martindale, R., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2024), Evolution of Western South Atlantic surface circulation during the Eocene-Oligocene transition based on planktic foraminiferal community analysis, presented at 2024 Fall Meeting, AGU, Washington D.C., December 9-13.

[113] *Thompson, M., **Reece, J.S.**, and the South Atlantic Transect IODP Expedition 390 & 393 Scientists (2024), Geomechanical properties and fluid flow in the sediment column of the South Atlantic Ocean Basin at 31 degrees South, presented at the 2nd post-cruise meeting for IODP Expeditions 390 & 393, Reykjavik, Iceland, May 27-29.

[112] °Andonov, M.E., **Reece, J.S.**, *Thompson, M., and the South Atlantic Transect IODP Expedition 390 & 393 Scientists (2024), Modeling of porosity evolution and mechanical compaction in sediments along the South Atlantic Transect: IODP Expeditions 390 and 393, presented at the 2nd post-cruise meeting for IODP Expeditions 390 & 393, Reykjavik, Iceland, May 27-29.

[111] *Berger, L.M., Ewing, R.C., and Lapôtre, M.G.A. (2024), Coarse-grained ripple patterns at the Algodones Dunes Field, California, presented at the 14th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 26.

[110] °Andonov, M.E., **Reece, J.S.**, Thompson, M., and the South Atlantic Transect IODP Expedition 390 & 393 Scientists (2024), Modeling of porosity evolution and mechanical compaction in sediments along the South Atlantic Transect: IODP Expeditions 390 and 393, presented at the 14th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 26.

[109] °Marchant, F., **Reece, J.S.**, and Thorpe, M.T. (2024), Comparing modern Icelandic sediments with the ancient rock record of Mars through resedimentation, presented at the 14th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 26.

[108] *Thompson, M., **Reece, J.S,** and the South Atlantic Transect IODP Expedition 390 & 393 Scientists (2024), Geomechanical properties and fluid flow in the sediment column of the South Atlantic Ocean Basin at 31 degrees South, presented at the 14th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 26.

[107] *Scott, W., and **Reece, J.S.** (2024), Consolidated-undrained shear behavior of diatomaceous mudstones: Implications for submarine slope failure, presented at the 14th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 26.

[106] Guertin, L. and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2024), Stitching Stories of Scientific Ocean Drilling: A Quilt Collection of the South Atlantic Transect (IODP Expeditions 390 and 393), presented at the Ocean Sciences Meeting, New Orleans, Louisiana, February 18-23.

2023

[105] Routledge, C.M., Borrelli, C., Lowery, C., McIntyre, A.J., Kulhanek, D.K., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Calcareous nannofossils from the Paleocene-Eocene Thermal Maximum, IODP Site U1557, South Atlantic Ocean, The Micropaleontological Society's annual conference, November 15-17.

[104] *Carpp, T., **Reece, J**., Misra, S., Becker, M. (2023), Application of data analytics to the chemometric analysis of conventionally produced oil samples in the Delaware Basin, IMAGE '23 conference, August 28 – September 1.

[103] Jonnalagadda, M.K., Harshe, S., Deshmukh, S., Belgrano, T.M., Teagle, D.A.H., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Significance of compositional variations in plagioclase from IODP 393 Site U1558: Insights into magmatic processes, Pune Conference, India.

[102] Harris, M., Carter, E., Evans, A., Albers, E., Belgrano, T., Kempton, P., Jonnalagadda, M., Coggon, R., Sylvan, J., Estes, E., Teagle, D., **Reece, J.**, Williams, T., and the South Atlantic Transect IODP

Expedition 390 & 393 Scientists (2023), Investigating hydrothermal alteration during the aging of the ocean crust: Insights from the South Atlantic Transect IODP Expeditions 390/393, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[101] Ryan, J., French, J., Walters, K., Santiago-Ramos, D., Jonnalagadda, M., Belgrano, T., Kempton, P., Coggon, R., Sylvan, J., Teagle, D., **Reece, J.**, Williams, T., Estes, E., and the South Atlantic Transect IODP Expedition 390 & 393 Scientists (2023), Evolving geochemical signatures in slow-spreading ocean crust from 0-61 Ma: Insights from recovered basalts of the South Atlantic Transect, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[100] Jonnalagadda, M.K., Belgrano, T.M., Ryan, J.G., Kempton, P.D., Evans, A.D., Grant, L.J.C., Teagle, D.A.H., Coggon, R.M., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Near-realtime shipboard geochemistry of MORB cores along the South Atlantic Transect by portable XRF, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[99] Gilhooly III, W.P., Kallmeyer, J., Treude, T., Wilbrandt, T., Sylvan, J.B., Estes, E.R., Wang, Y., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Cryptic sulfur cycling in sediments of the South Atlantic Gyre, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[98] Hong, G. and **the South Atlantic Transect IODP Expedition 390 & 393 Scientist**s (2023), Composition and microstructure of magnetic minerals within basaltic cores of the South Atlantic Transect (SAT) and their correlation with rock magnetic properties, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[97] Evans, A.D., Harris, M., Carter, E.J., Albers, E., Belgrano, T.M., Jonnalagadda, M., Grant, L.J.C., Kempton, P.D., Teagle, D.A.H., Coggon, R.M., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Progressive evolution of hydrothermal vein characteristics in upper oceanic crust: Evidence from the South Atlantic Transect, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[96] Villa, A., Meyers, S., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Astrochronologic and paleoceanographic reconstruction across the Eocene – Oligocene Transition and throughout the Oligocene in the western South Atlantic, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[95] Moal-Darrigade, P., Ducassou, E., Giraudeau, J., Perello, M.-C., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Deciphering bottom water masses influences on abyssal sedimentation based on grain-size distribution: IODP Exp 390/393, the South Atlantic Transect, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[94] Grandison, S., Kaplan, M., Franzese, A., Hemming, S., Goldstein, S., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Geochemistry of terrigenous sediments in South Atlantic Transect (SAT) cores, IODP Expedition 390, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[93] Sylvan, J.B., Estes, E.R., Wang, Y., D'Angelo, T., Wee, S.Y., Gilhooly III, W.P., Santiago-Ramos, D., Villa, A., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Microbial processes indicated by porewater geochemistry along the International Ocean Discovery Program South Atlantic Transect, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15..

[92] Shchepetkina, A., Moal-Darrigade, P., Pekar, S., Williams, T., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Estimating $CaCO_3$ content based on natural gamma ray (NGR)

in deep-ocean sediment cores: IODP Exp 390/393, the South Atlantic Transect, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[91] Hojnacki, V., Passchier, S., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Changes in terrigenous and carbonate sortable silt in the Southern Atlantic at the Eocene – Oligocene Transition: Results from the IODP South Atlantic Transect, Expedition 393, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[90] Grant, L.J.C., Massot-Campos, M., Thornton, B., Rotondo, F., Teagle, D.A.H., Coggon, R.M., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Machine learning approaches to core logging, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[89] Wang, Y., Nielsen, S., Costa, K., McIntyre, A., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Paleogene ocean redox changes from the western South Atlantic: Reconstruction from IODP 390 and 393, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[88] Kempton, P.D., Coggon, R.M., Taylor, R., Michalik, A., Milton, A., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Presence of a HIMU mantle plume component beneath the South American plate in the vicinity of the eastern Rio Grande Rise: IODP Exp 390/393, the South Atlantic Transect, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[87] Coggon, R.M., Lington, J., Evans, A.D., Grant, L.J.C., Teagle, D.A.H., Harris, M., Carter, E.J., Albers, E., Belgrano, T.M., Jonnalagadda, M., Kempton, P.D., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Carbon-uptake during ridge flank hydrothermal exchange in 7-61 Ma upper ocean crust across the South Atlantic Transect, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[86] Lupini, I., Broley, K., Bearden, A., Van Wagenen, A., Kempton, P.D., Brueseke, M., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Element partitioning between altered basaltic glass and secondary phillipsite: Preliminary results from Site U1557, South Atlantic Transect, Expeditions 390/393, presented at 2023 Annual Meeting, GSA, Pittsburgh, Pennsylvania, October 15-18.

[85] Guertin, L., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Gamification of quilts to increase ocean education and engagement: Examples from scientific ocean drilling (IODP Expeditions 390 & 393), presented at 2023 Annual Meeting, GSA, Pittsburgh, Pennsylvania, October 15-18.

[84] Mindrup, Q., Mathur, R., Kempton, P.D., Evans, A., Coggon, R., Teagle, D., **Reece, J.**, Sylvan, J., Williams, T., Estes, E., and the South Atlantic Transect IODP Expedition 390 & 393 Scientists (2023), Impact of seawater alteration on Cu isotope composition of oceanic basalts along the South Atlantic Transect: IODP Exp 390/393, presented at 2023 Annual Meeting, GSA, Pittsburgh, Pennsylvania, October 15-18.

[83] Kempton, P.D., Mathur, R., Mindrup, Q., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Variation in Cu isotope composition of MORB-source mantle along a 61-million-year-long mantle flow line: basalts from the South Atlantic Transect, presented at 2023 Annual Meeting, GSA, Pittsburgh, Pennsylvania, October 15-18.

[82] Robustelli Test, C., Amadori, C., Belgrano, T., Coggon, R., Evans, A., Harris, M., Jonnalagadda, M., Teagle, D., Zanella, E., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Rock magnetic properties of MORB between 7 and 61 Ma along the South Atlantic Ridge Flank: Insights into changes in magnetic mineralogy related to low-temperature seawater-basalts interaction, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[81] Standring, P., Ketcham, R., Kearns, L., Borrelli, C., Lowery, C., Martindale, R., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Micro-computed tomography scanning of foraminifera as indicators of calcite compensation depth change in the western South Atlantic during the Eocene-Oligocene transition, presented at 2023 Annual Meeting, GSA, Pittsburgh, Pennsylvania, October 15-18.

[80] Kim, S., Yang, K., Kaplan, M.R., Tamborrino, L., Wang, Y., Aizawa, M., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Reconstruction of paleoclimate and source changes based on clay minerals in the South Atlantic Transect: IODP Expedition 390, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[79] *Scott, W., **Reece, J.S.** (2023), Consolidated-undrained shear behavior of diatomaceous mudstones: Implications for submarine slope failure, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[78] **Reece, J.S.**, °Andonov, M.E. (*presenting author*), °Rivera, A., *Thompson, M., and the South Atlantic Transect IODP Expedition 390 & 393 Scientists (2023), Modelling of porosity evolution and mechanical compaction in sediments along the South Atlantic Transect: IODP Expeditions 390 and 393, presented at 2023 Fall Meeting, AGU, San Francisco, California, December 11-15.

[77] Coggon, R.M., Teagle, D.A.H., Sylvan, J.B., **Reece**, **J.**, Estes, E.R., Williams, T.J., Christeson, G.L., and the South Atlantic Transect IODP Expedition 390 & 393 Scientists (2023), UK-IODP Annual Meeting 2023, National Oceanography Centre, Southampton & Online, July 19-20.

[76] Zeller, M., Van Dam, B., McKenna, A., Lopes, C., Osburn, C., Fourqurean, J., Kominoski, J., Böttcher, M., Smrzka, D., Smit, N., Orphan, V., Bohrmann, G., **the South Atlantic Transect IODP Expedition 390 & 393 Scientists**, Mailland, J., Kucera, M., Zabel, M., and Hinrichs, K.-U. (2023), Biogeochemistry of carbonate – associated organic matter: A story in 3 parts, 31st International Meeting on Organic Geochemistry, Montpellier, France, September 10-15, 2023.

[75] Koorapati, R.K., Lam, A.R., Guerin, G., Yeon, J., Kuwano, D., Teagle, D.A.H., **Reece, J.S.**, Coggon, R.M., Sylvan, J., Williams, T., Estes, E.R., and t**he South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Middle Miocene Qualitative Reconstruction of the Oligotrophic South Atlantic Gyre, IODP Expeditions 390/393, GSA Connects 2023 Meeting, Pittsburgh, Pennsylvania, October 15-18.

[74] Routledge, C.M., Borrelli, C., Lowery, C., McIntyre, A.J., Kulhanek, D.K., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Calcareous Nannofossils from the Paleocene-Eocene Thermal Maximum, IODP Site U1557, South Atlantic Ocean, IODP/ICDP Colloquium, Hannover, Germany, August 29-31.

[73] Villa, A., Meyers, S., Dutton, A., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Astrochronologic and Paleoceanographic Reconstruction of Abrupt Climate Events across the Eocene-Oligocene Transition, Bremen ECORD Summer School, Center for Marine Environmental Sciences, Bremen, Germany, September 4-15.

[72] McIntyre, A.J., Sexton, P.F., Anand, P., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Paleogene South Atlantic Deep Ocean Circulation: Preliminary findings from The South Atlantic Transect – IODP Exp 390 and 393, UK-IODP Annual Meeting 2023, National Oceanography Centre, Southampton & Online, July 19-20.

[71] McIntyre, A.J., Sexton, P.F., Anand, P., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Reconstructing Paleogene Atlantic Ocean Circulation, Paleoclimate Society Seminar, Virtual Seminar Series, May 3.

[70] Doi, N., Kameo, K., Kuwano, D., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Morphologic transitions of reticulofenestrids during the Pliocene, 2nd Asian Paleontological Congress, Tokyo, Japan, August 3-7.

[69] °McGlothlin, A., *Scott, W., and **Reece, J.** (2023), Analyzing the role of diatoms in submarine slope failure through grain size analyses, presented at the 13th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 21.

[68] °Rivera, A., *Thompson, M., **Reece, J.**, and the South Atlantic Transect IODP Expedition 390 & 393 Scientists (2023), Sediment porosity along the South Atlantic Transect: IODP Expeditions 390 and 393, presented at the 13th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 21.

[67] *Scott, W., and **Reece, J.** (2023), The influence of diatoms on hydromechanical properties of marine sediments, presented at the 13th Annual Department Research Symposium, Department of Geology and Geophysics, Texas A&M University, College Station, Texas, April 21.

[66] Lowery, C.M., Standring, P., Borrelli, C., Routledge, C., Villa, A., McIntyre, A., and **the South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), Eocene Evolution of surface circulation and export production in the western South Atlantic, to be presented at FORAMS 2023, International Symposium on Foraminifera, The Micropaleontological Society, Perugia, Italy, June 26-30.

[65] Kempton, P., Ryan, J., Belgrano, T., Jonnalagadda, M., Coggon, R., Teagle, D., Estes, E., Sylvan, J., **Reece, J.**, Williams, T., and the South Atlantic Transect IODP Expedition 390 & 393 scientists (2023), 61 Ma basalts from IODP Expedition 390 Site U1556: Evidence for plume-ridge interaction during opening of the South Atlantic?, to be presented at Goldschmidt 2023, organized by European Association of Geochemistry and Geochemical Society, Lyon, France, July 9-14.

[64] Ryan, J., Belgrano, T., Jonnalagadda, M., Kempton, P., Coggon, R., Teagle, D., **Reece, J.**, Sylvan, J., Williams, T., Estes, E., and the South Atlantic Transect IODP Expedition 390 & 393 scientists (2023), Evolving MORB compositions between 61 and 7 Ma along the South Atlantic Transect (SAT: IODP Expeditions 390 and 393): shipboard data insights into source and process, to be presented at Goldschmidt 2023, organized by European Association of Geochemistry and Geochemical Society, Lyon, France, July 9-14.

[63] Guertin, L., Coggon, R.M., Sylvan, J.B., Teagle, D.A.H., **Reece, J.**, Christeson, G.L., Estes, E.R., Williams, T.J., and the South Atlantic Transect IODP Expedition 390 & 393 scientists (2023), Engaging students and communities in sky color and cover observations during ocean expeditions, to be presented at 2023 National Marine Educators Association Meeting, Bellingham, Washington, USA, July 23-27.

[62] Kuwano, D., Aizawa, M., Takada, M., Doi, N., Coggon, R.M., Sylvan, J.B., Teagle, D.A.H., **Reece, J.**, Christeson, G.L., Estes, E.R., Williams, T.J., and the South Atlantic Transect IODP Expedition 390 & 393 scientists (2023), Preliminary Reports of International Ocean Discovery Program Expedition 390 and 393: South Atlantic Transect, to be presented at 2023 Japan Geoscience Union Meeting, Chiba, Japan, May 21-26.

[61] Fitzgerald, B.L., Sawyer, D.E., **Reece, J.S.**, *Scott, W. (2023), Shear strength development during early burial on seismically active margins: A geotechnical investigation into seismic strengthening, presented at 2023 European Geophysical Union General Assembly, Vienna, Austria, April 23-28.

[60] Cotterill, C., Yakutchik, M., Guertin, L., Garnsworthy, M., IODP Expedition 392 scientists, and **The South Atlantic Transect IODP Expedition 390 & 393 Scientists** (2023), From science to stories: different ways to engage new audiences, presented at 2023 European Geophysical Union General Assembly, Vienna, Austria, April 23-28.

[59] Koorapati, R.K., Lam, A.R., Guerin, G., Yeon, J., Teagle, D., **Reece, J.**, Coggon, R.M., Sylvan, J., Williams, T., Estes, E.R., and the South Atlantic Transect IODP Expedition 390 & 393 scientists (2023), Middle Miocene qualitative reconstruction of the oligotrophic South Atlantic gyre, IODP Expeditions 390/393, presented at the 2023 Joint Southeastern & Northeastern Section Meeting of The Geological Society of America, Reston, Virginia, March 17-19.

[58] *Carpp, T., **Reece, J.**, Misra, S., Becker, M. (2023), Application of data analytics to chemometric analysis of conventionally produced oil samples from the Delaware Basin, to be presented at 2023 URTeC Meeting, Unconventional Resources Technology Conference, Denver, Colorado, June 13-15.

2022

[57] Fitzgerald, B.L., Sawyer, D.E., **Reece, J.S.**, *Scott, W. (2022), Shear strength development during early burial on seismically active margins: A geotechnical investigation into seismic strengthening, presented at 2022 Fall Meeting, AGU, Chicago, Illinois, December 12-16.

[56] Coggon, R.M., Sylvan, J.B., Teagle, D.A.H., **Reece, J.S.**, Estes, E.R., Williams, T., Christeson, G.L., and The South Atlantic Transect IODP Expedition 390 & 393 Scientists (2022), The South Atlantic Transect: Multidisciplinary Experiments from Ridge Crest to Margin Drilled by Joint Expeditions 390/393, presented at 2022 Fall Meeting, AGU, Chicago, Illinois, December 12-16.

[55] °Thompson, M., †Cardona, S., and **Reece, J.S.** (2022). The role of weak layers in numerical models of the Tuaheni Landslide Complex, Hikurangi Margin, New Zealand, presented at the ECORD Magellan Plus Workshop on Mission-specific platform approaches to assessing natural hazards that impact society, Lisbon, Portugal, July 7-9.

2021

[54] †Cardona, S., **Reece, J.S.**, Dugan, B., Wood, L., Nole, M., Georgiopoulou, A., Mountjoy, J., Underwood, M., Brunet, M., French, M., °Thompson, M., Couvin, B., and Gross, F. (2021), Near the brink: An example of a weak layer in the Tuaheni Landslide Complex, Hikurangi Margin, New Zealand, presented at 2021 Fall Meeting, AGU, New Orleans, Louisiana, December 13-17.

[53] *Mills, N.T., **Reece, J.S.**, Tice, M.M., and Sylvan, J.B. (2021), Hydromechanical effects of microorganisms on fine-grained sediments during early burial, presented at 2021 Fall Meeting, AGU, New Orleans, Louisiana, December 13-17.

[52] *Mills, N.T., **Reece, J.S.**, and Tice, M.M. (2021), Clay minerals modulate early carbonate diagenesis, presented at 2021 Fall Meeting, AGU, New Orleans, Louisiana, December 13-17.

[51] *Scott, W. and **Reece, J.S.** (2021), The influence of diatoms on mudstone hydromechanical properties and submarine slope stability, presented at 2021 Fall Meeting, AGU, New Orleans, Louisiana, December 13-17.

[50] **Reece, J.S.** (2021), The impact of grain size on the hydromechanical behavior of mudstones, presented at 2021 Fall Meeting, AGU, New Orleans, Louisiana, December 13-17.

2020

[49] *Mills, N.T., **Reece, J.S.**, and Tice, M.M. (2020), Clay minerals modulate early carbonate diagenesis (Poster), Gordon Research Conference, Galveston, Texas, January 12-17.

2019

[48] Coggon, R.M., Reece, R.S., Christeson, G.L., Teagle, D.A.H., Sylvan, J.B., Reese, B.K., Leckie, R.M., Lowery, C., Hayman, N.W., **Reece, J.S.**, Jöns, S., Zachos, J.C., Briggs, B.R., Kirkpatrick, J.B., and Huber, M. (2019), The South Atlantic Transect – A Multidisciplinary Scientific Ocean Drilling Investigation, Abstract presented at 2019 Fall Meeting, AGU, San Francisco, California, December 12-16.

[47] *Mills, N.T., **Reece, J.S.**, and Tice, M.M. (2019), The acid-base properties of clay minerals as a potential buffer for sediment pore water pH and carbonate saturation during microbial iron reduction (Talk), Texas A&M University Department of Geology and Geophysics Student Research Symposium, College Station, Texas, March 21.

2018

[46] *Mills, N.T., **Reece, J.S.**, and Tice, M.M. (2018), The acid-base properties of clay minerals as a potential buffer for sediment pore water pH and carbonate saturation during microbial iron reduction (Talk), Abstract presented at 2018 Geological Society of America Annual Meeting, GSA, Indianapolis, Indiana, November 4-7.

[45] *Eakin, A.L., **Reece, J.S.**, and Milliken, K. (2018), Cement paragenesis as revealed by SEM cathodoluminescence imaging in the Permian Spraberry and Wolfcamp Formations (Poster), Texas A&M University Department of Geology and Geophysics Student Research Symposium, College Station, Texas, March 22.

[44] *Mills, N.T., **Reece, J.S.**, and Tice, M.M. (2018), The influence of clay minerals on the evolution of mudstone pore fluids during microbial iron reduction (Poster), Texas A&M University Department of Geology and Geophysics Student Research Symposium, College Station, Texas, March 22.

[43] *Mills, N.T. and **Reece, J.S.** (2018), How do microbes affect mudstone properties during diagenesis? (Poster), Gordon Research Conference, Galveston, Texas, January 21-26.

2017

[42] *Mills, N.T., **Reece, J.S.**, and Tice, M.M. (2017), Silica diagenesis in mudstones and the impact on consolidation and brittle deformation (Talk), Abstract presented at 2017 Geological Society of America Annual Meeting, GSA, Seattle, Washington, October 22-25.

[41] *Eakin, A.L. and **Reece, J.S.** (2017), Silica diagenesis in mudstones and the impact on consolidation and brittle deformation (Poster), Abstract presented at 2017 Annual Convention & Exhibition, AAPG, Houston, Texas, April 2-5.

[40] *Eakin, A.L. and **Reece, J.S.** (2017), Investigation of quartz and carbonate diagenesis in mudstones of the Permian Spraberry and Wolfcamp Formations, west Texas (Poster), Texas A&M University Department of Geology and Geophysics Student Research Symposium, College Station, Texas, March 30.

[39] *Mills, N.T., **Reece, J.S.,** and Tice, M.M. (2017), Evolution of mudstone porosity, permeability, and microstructure in the presence of microorganisms during vertical compression (Poster), Texas A&M University Department of Geology and Geophysics Student Research Symposium, College Station, Texas, March 30.

[38] °Shackleton, T. and **Reece, J.S.** (2017), Microfossils in marine sediments: The influence on macro-scale mechanical behavior (Poster), Texas A&M University Department of Geology and Geophysics Student Research Symposium, College Station, Texas, March 30.

[37] °Shackleton, T. and **Reece, J.S.** (2017), Microfossils in marine sediments: The influence on macro-scale mechanical behavior (Poster), Abstract presented at 2017 51st Annual Meeting, GSA South-Central Section, San Antonio, Texas, March 13-14.

2016

[36] °Altobelli, M.A. and **Reece, J.S.** (2016), Effect of organic material on mechanical, hydrological, and microstructural properties of mudstones (Poster), Abstract MR51C-2722 presented at 2016 Fall Meeting, AGU, San Francisco, California, December 12-16.

[35] *Eakin, A.L. and **Reece, J.S.** (2016), Investigation of quartz diagenesis in mudstones of the Spraberry and Wolfcamp Formations (Oral), Abstract MR44A-04 presented at 2016 Fall Meeting, AGU, San Francisco, California, December 12-16.

[34] *Mills, N.T. and **Reece, J.S.** (2016), Evolution of mudstone porosity, permeability, and microstructure in the presence of microorganisms during vertical compression (Poster), Abstract MR51C-2731 presented at 2016 Fall Meeting, AGU, San Francisco, California, December 12-16.

[33] **Reece, J.S.** and °Shackleton, T. (2016), The role of microfossils in the compression of marine sediments: Implications for submarine slope failure (Poster), Abstract T51B-2912 presented at 2016 Fall Meeting, AGU, San Francisco, California, December 12-16.

[32] Wu, W., Gensterblum, Y., **Reece, J.S.** and Zoback, M.D. (2016), Permeability evolution with shearing of simulated faults in unconventional shale reservoirs (Poster), Abstract MR51C-2727 presented at 2016 Fall Meeting, AGU, San Francisco, California, December 12-16.

[31] *Mills, N.T. and **Reece, J.S.** (2016), How do microbes affect mudstone properties during diagenesis? (Poster), Texas A&M University Department of Geology and Geophysics Student Research Symposium, College Station, Texas, March 31.

[30] °Altobelli, M. and **Reece, J.S.** (2016), Effect of organic material and heterogeneities on mechanical and flow behavior in mudstones (Poster), Texas A&M University Department of Geology and Geophysics Student Research Symposium, College Station, Texas, March 31.

[29] °Goodspeed, J.C. and **Reece, J.S.** (2016), Comparison of three different particle size distribution analyzers (Poster), Texas A&M University Department of Geology and Geophysics Student Research Symposium, College Station, Texas, March 31.

2015

[28] *Eakin, A. and **Reece, J.S.** (2015), Effect of Diagenesis on Rock Consolidation Behavior: Testing Analytical Methods (Poster), Texas A&M University Berg-Hughes Symposium, College Station, Texas, October 16.

[27] *Mills, N.T. and **Reece, J.S.** (2015), Influence of microbial activity on mechanical and transport properties of mudstones during early diagenesis (Poster), Texas A&M University Berg-Hughes Symposium, College Station, Texas, October 16.

[26] *Eakin, A. and **Reece, J.S.** (2015), Effect of Diagenesis on Rock Consolidation Behavior (Poster), Texas A&M University Department of Geology and Geophysics Graduate Research Symposium, College Station, Texas, April 10.

2014

[25] **Reece, J.S.**, Zoback, M.D., and Kohli, A.H. (2014), Effect of Shear Slip on Fault Permeability in Shale Reservoir Rocks, Abstract H13Q-03, presented at 2014 Fall Meeting, AGU, San Francisco, Calif., December 15-19.

[24] Al Ismail, M.I., Hol, S., **Reece, J.S.**, and Zoback, M.D. (2014), The Effect of CO2 Adsorption on Permeability Anisotropy in the Eagle Ford Shale, presented at the "The Challenges of Studying Low Permeability Materials" workshop, Cergy-Pontoise University, December 2.

[23] Al Ismail, M.I., Hol, S., **Reece, J.S.**, and Zoback, M.D. (2014). The Effect of CO2 Adsorption on Permeability Anisotropy in the Eagle Ford Shale (Poster), Conference Paper 1921520 presented at the Unconventional Resources Technology Conference, Denver, Colorado, August 25-27.

2012

[22] **Reece, J.S.** and Flemings, P.B. (2012). Prediction of hydraulic diffusivity in marine mudstones through resedimentation experiments (Poster), Abstract MR33B-2463 presented at 2012 Fall Meeting, AGU, San Francisco, California, December 3-7.

[21] Bhandari, A.R., **Reece, J.S.**, Cronin, M.B., Flemings, P.B., and Polito, P.J. (2012). Transient pressure-pulse decay permeability measurements in the Barnett shale, Abstract MR33B-2462 presented at 2012 Fall Meeting, AGU, San Francisco, California, December 3-7.

[20] Flemings, P.B., **Reece, J.S.**, Adams, A.L., and Germaine, J.T. (2012). Making Mudstones: insights into material behavior through resedimentation experiments, Abstract MR23D-04 presented at 2012 Fall Meeting, AGU, San Francisco, California, December 3-7.

[19] **Reece, J.S.**, Flemings, P.B., and the Expedition 322 Scientists (2012). Deformation and transport processes of resedimented mudstones in their initial pre-subduction conditions (Poster), GSA Penrose Conference on Deformation, fluid flow, and mass transfer in the forearc of convergent margins, Lucca, Italy, March 25-31.

2011

[18] Betts, W.S., Flemings, P.B., **Schneider, J.**, (2011), Permeability and compressibility of resedimented Gulf of Mexico mudrock, Abstract MR43A-2133 presented at 2011 Fall Meeting, AGU, San Francisco, California, December 5-9.

[17] **Schneider, J.**, Flemings, P.B., Day-Stirrat, R.J., Germaine, J.T. (2011). Insights into pore-scale controls on mudstone permeability and compressibility through resedimentation experiments (Oral), Geopressure 2011, An International Interdisciplinary Conference on Pressure Regimes and Their Prediction at all Scales, Galveston, TX, October 2-5.

[16] **Schneider, J.**, Flemings, P.B., Day-Stirrat, R.J., Germaine, J.T. (2011). Insights into pore-scale controls on mudstone permeability and compressibility through resedimentation experiments (Oral), Abstract EGU2011-9052 presented at EGU General Assembly 2011, Vienna, Austria, April 3-8.

[15] **Schneider, J.**, Flemings, P.B., Germaine, J.T., Compression and permeability behavior of resedimented mudstones from seaward of the Nankai Trough, IODP Expedition 322, Site C0011, presented at 2011 Expedition 319/322 2nd post-cruise meeting, Barcelona, Spain, September 26-28.

[14] Flemings, P.B., Atkins, C., **Schneider, J.**, Particle size analysis IODP Expedition 319 Site C0009 (1521-1595 mbsf), presented at 2011 Expedition 319/322 2nd post-cruise meeting, Barcelona, Spain, September 26-28.

2010

[13] **Schneider, J.**, Flemings, P.B., Day-Stirrat, R.J., Germaine, J.T. (2010). Experimentally derived model to predict permeability behavior of mudstones (Poster), Abstract MR11B-1880 presented at 2010 Fall Meeting, AGU, San Francisco, CA, December 13-17.

[12] **Schneider, J.**, Peets, C.S., Flemings, P.B., Day-Stirrat, R.J., Germaine, J.T. (2010). Experimentally derived mechanical and flow properties of mudstones (Poster), Extended Abstract for the EAGE Shale Workshop - Shale – Resource and Challenge, 3 pp., Nice, France, April 26-28.

2009

[11] **Schneider, J.**, Peets, C.S., Flemings, P.B., Day-Stirrat, R.J., Germaine, J.T. (2009). Experimentally derived mechanical and flow properties of fine-grained soil mixtures (Poster), Eos Trans. AGU, 90(52), Fall Meet. Suppl., Abstract H23F-1024, San Francisco, CA, December 14-18.

[10] Day-Stirrat, R.J., Flemings, P.B., Strong, H.E., **Schneider, J.**, Sawyer, D.E., Schleicher, A.M. (2009). The fabric of Mass Transport Deposits in the Ursa Basin, Gulf of Mexico, Eos Trans.AGU, 90(52), Fall Meet. Suppl., Abstract T53C-1607, San Francisco, CA, December 14-18.

[9] Strong, H.E., Flemings, P.B., Sawyer, D.E., Germaine, J.T., Day-Stirrat, R., **Schneider, J.**, (2009). Consolidation characteristics of mass transport deposits in Ursa Basin, Northern Gulf of Mexico, American Association of Petroleum Geologists National Meeting, Denver Colorado.

2008

[8] **Schneider, J.**, Flemings, P.B., Dugan, B., Long, H., Germaine, J.T., Saffer, D.M. (2008). Porosity vs. Permeability Behavior of Shallow Mudstones in the Ursa Basin, Deepwater Gulf of Mexico (Poster), Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract OS11A-1105, San Francisco, CA, December 15-19.

[7] Flemings, P.B., You, Y., Sawyer, D., **Schneider, J.** (2008). Forward modeling pore pressure evolution in the Ursa Basin, offshore Louisiana, Gulf of Mexico, Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract OS11A-1104, San Francisco, CA, December 15-19.

[6] Flemings, P.B., Dugan, B.E., Sawyer, D.E., **Schneider, J.**, Strong, H.S. (2008). Pore pressure penetrometers document high overpressure near the seafloor where multiple submarine landslides have occurred on the continental slope, offshore Louisiana, Gulf of Mexico, 33rd International Geological Congress, Oslo, Norway.

[5] **Schneider, J.**, Flemings, P.B (2008). Overpressure and compaction of porous marine sediments (Poster, Oral), Marie Curie Summer School, Knowledge Based Materials, Hydrous and porous systems, Trèst, Czech Republic, August 19-29.

[4] Flemings, P.B., Long, H., **Schneider, J.**, Germaine, J.T., Dugan, B. (2008). Compressibility and Permeability Behavior of Shales at Low Effective Stresses, European Association of Geoscientists & Engineers Research Workshop, 'Compacting and Stressing Out Shales: from Geological to Production Timescales', Berlin, Germany.

[3] **Schneider, J.**, Flemings, P.B., Long, H., Dugan, B., Germaine, J.T., Saffer, D.M., and IODP Expedition 308 Shipboard Scientific Party (2008). Pore pressure prediction near the seafloor in the Brazos-Trinity Basin, Gulf of Mexico (Oral), International Conference "Overpressure 2008: Present and Future Challenges – A Research Conference", Durham, England, April 6-9.

2005

[2] **Schneider, J.**, Moerz, T., Bartetzko, A., Iturrino, G.J., Edeskaer, T.M., Flemings, P.B., Behrmann, J.H., John, C.M., and IODP Expedition 308 Shipboard Scientific Party (2005). Examples of mass wasting and hemipelagic sedimentation of Brazos-Trinity Basin #4 and Ursa Basin (Poster), Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract OS21A-1516, San Francisco, CA, December 5-9.

[1] **Schneider, J.**, Moerz, T., Bartetzko, A., Iturrino, G.J., Edeskaer, T.M., Flemings, P.B., Behrmann, J.H., John, C.M., and IODP Expedition 308 Shipboard Scientific Party (2005). Examples of mass wasting and hemipelagic sedimentation of Brazos-Trinity Basin IV and Ursa Basin, Northern Gulf of Mexico, IODP Expedition 308 (Poster), German IODP Meeting, Greifswald, Germany, March 27-29.