

CURRICULUM VITAE
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Personal History

EDUCATION:

Ph.D.-1998, State University of New York Stony Brook, Geological Oceanography
M.S. - 1993, State University of New York, Stony Brook, Marine Environmental Science
B.S. - 1991, Humboldt State University, Oceanography, Geology Minor

EMPLOYMENT:

2007-Present, Associate Professor, University of Florida
2000-2007, Assistant Professor, University of Florida
1998-1999, Post Doctoral Scientist, Lehigh University

Affiliate Appointments

School of Natural Resources & Environment, UF

Awards

Colonel Allan R. and Margaret G. Crow Term Professor, College of Liberal Arts and Sciences,
University of Florida, 2014-2015

Professional Affiliations

American Geophysical Union
Geological Society of America
Society of Economic Paleontologists and Mineralogists
American Association of Petroleum Geologists

Research Interests

- Marine Sedimentology
- Glacial and Glacimarine Geology
- Continental Margin Stratigraphy
- Estuarine and Coastal Sedimentology
- Sedimentary geochemistry, diagenesis of sediments

Research Experience

- Co-Chief Scientist, Integrated Ocean Drilling Program Expedition 341 Southern Alaska, 5/28/13-7/29/13
- Sedimentologist, Integrated Ocean Drilling Program Expedition 317 Canterbury Basin, 11/2/09-1/5/10
- Monitoring shoreline and beach morphologic change at Kennedy Space Center, Cape Canaveral, Florida, May 2009-September, 2013.
- GIS analysis of remotely sensed imagery, estuarine shoreline and morphologic change Florida east coast estuaries, March 2012-present
- Sedimentary geology of coastal Florida lakes, lagoons, marshes, and estuaries (2000-present)
- Co-Chief Scientist: R/V *Maurice Ewing*, Cruise EW0408, Sedimentation, Paleooceanography, and Paleoclimatology of Southeast Alaska, Newport Oregon to Kodiak Alaska, 8/21/2004-9/23/2004
- Coring Supervisor, R/V *Alpha Helix*, Cruise AH0404, Hubbard Glacier Expedition, Seward-Seward Alaska, 6/14/2004-6/22/2004
- Hydrate Ridge, Cascadia Margin, DSV Alvin Dives to ODP CORK 892B June 1998; July, 1999; August, 2000
- Northeastern Gulf of Alaska, August-Sept., 1994; July 1995 (PhD cruises)
- Naval Research Laboratory, Coastal Benthic Boundary Layer (CBBL) Program 1993 Baltic Sea, Germany & 1995 Dry Tortugas, Florida
- Joint Australian-US Cruise, April 5-20, 1996, R/V *Lady Basten*-Sepik River, North Coast of Papua New Guinea

Laboratory research includes: quantitative sedimentology, x-radiography, sedimentary petrology-Optical/SEM. Mineralogical studies using X-ray diffraction. Quaternary dating techniques including radiocarbon, ^{210}Pb , ^{137}Cs , and uranium-series. Stable isotope and chemical analysis of sediments, organic matter, and carbonates. Field experience in box, gravity, piston, and vibra coring. Description and curation of geological samples.

Awards and Grants-Lead PI at UF

- National Science Foundation, Ocean Sciences, Marine Geology and Geophysics, "Collaborative Research: Expedition 341 Oriented Research- Linking Sediment Provenance and Strata Formation to Tectonic-Climate Interactions along the southern Alaska Margin", August 2014 – August 2017, OCE-1434402.
- Integrated Ocean Drilling Program Expedition 341 Participation Award, Consortium for Ocean Leadership, 5/30/2013-1/31/2015
- National Science Foundation, Earth Sciences, "Energetics and Stability of Geologically-Confined Water", July 2013 – September 2014, EAR-0819769, co-PI with Elizabeth Sreaton, UF/Geo. Sci.
- NOAA Regional Ocean Partnership Funding Program "Phase 1 and 2: Application of New Geospatial Tools for a Regional Vulnerability Assessment of Estuarine Shorelines of North Carolina, South Carolina, Georgia and Eastern Florida"-subcontract through Skidaway Institute of Oceanography, March 2012-March 2014.
- National Science Foundation, Ocean Sciences/ Marine Geosciences/ Ocean Drilling Program "Collaborative Research: Expedition 317 Objective Research – Linking Sediment Provenance to Supply and Lithofacies Formation on the Canterbury Margin," May 2011 – April 2014, OCE-1060844

- NASA “Monitoring Shoreline and Beach Morphologic Change At Kennedy Space Center, Cape Canaveral, Florida” 10/1/10-9/30/11, subcontracted through Innovative Health Applications
- “Developing Sediment Chronologies for the Chukchi Sea”, sub-contract to University of Alaska, 07/17/2009-12/31/2010
- Integrated Ocean Drilling Program Expedition 317 Participation Award, Consortium for Ocean Leadership, 11/4/2009-11/03/2012
- “An evaluation of Neogene sedimentation on the Surveyor Fan, Gulf of Alaska: Site Augmentation proposal for IODP 686-Full”, Consortium for Ocean Leadership, 8/1/08-7/31/10.
- “Development of Shoreline Change Proxies from Satellite Image Analysis and Beach Surveys at Cape Canaveral, Florida”, NASA, 4/15/09-4/14/10
- National Science Foundation, Ocean Sciences/ Marine Geosciences/ Ocean Drilling Program “Collaborative Research: Establishing a High-resolution Temporal Record of Quaternary Climate-Glacial-Ocean Linkages in Southern Alaska (and IODP Site Survey)," May 2004 – April 2006, OCE-0351043
- National Science Foundation, Office of Polar Programs/Arctic Natural Sciences “Collaborative Research: Establishing Marine Varve Thickness as a Proxy for Annual Alaska Climate Variability and PDO Oscillations, Hubbard Glacier Field Study." August 2003-July 2006. OPP-0326926
- Joint Oceanographic Institutions, "Evaluating Decadal-Scale Climate Change and Geomagnetic Paleointensity Records in Continental Shelf Strata of the Subarctic Pacific: IODP Proposal 597", May 2003-April 2004,
- Joint Oceanographic Institutions, Workshop “Interplay of Collisional Tectonics and Late Cenozoic Glacial Climate in Alaska and the Northeastern Pacific Ocean" joint with Continental Dynamics/National Science Foundation, January 2003-December 2003,
- Jupiter Inlet District Commission, Jan.-December, 2002
Developing Late Holocene Chronologies of Estuarine Processes, Loxahatchee River Estuary, Palm Beach County, FL, Lead PI,

Awards and Grants-Co PI at UF

- NASA “Monitoring Shoreline and Beach Morphologic Change at Kennedy Space Center, Cape Canaveral, Florida” 10/1/11-9/30/13, subcontracted through Innovative Health Applications, NASA subcontractor
- National Science Foundation-EAR/Instrumentation and Facilities “Acquisition of an X-ray Diffractometer for Mineralogical and Sedimentological Studies”, Sept 1, 2008-August 31, 2009.
- “Sediment Transport through Tidal Inlets During Extreme Forcing: Erosion or Accretion?” Arnoldo Valle-Levinson - PI (Civil and Coastal Engineering), John M. Jaeger (Geological Sciences), Tian-Jian Hsu (Civil and Coastal Engineering), Alexandru Sheremet (Civil and Coastal Engineering). UF Water Institute Program Initiation Fund, June 1, 2007-May 31, 2008.
- “Lake Apopka Sediment Resuspension Model Development”, Ashish Mehta (Civil and Coastal Engineering), John M. Jaeger (Geological Sciences), Arnoldo Valle-Levinson (Civil and Coastal Engineering), St. Johns River Water Management District, July 1, 2007-June 30, 2009.

- Jupiter Inlet District Commission, June, 2005-Sept. 2006, Reassessment of Sand Budget at Jupiter Inlet, Joint with UF Coastal Engineering
- St. John's Water Management District, May 2003-May. 2005, Quantification of Advective Benthic Processes Contributing Nitrogen and Phosphorus to Surface Waters of the Indian River Lagoon,
- St. John's Water Management District, January 2003-Sept. 2004 Grassbed Sediment Composition Survey of the Lower St. Johns River, Joint with Soil and Water Sciences
- Jupiter Inlet District Commission, Jan.-December, 2002 Developing Late Holocene Chronologies of Estuarine Processes, Loxahatchee River Estuary, Palm Beach County, FL, Joint with UF Coastal Engineering Lead PI
- Southwest Florida Water Management District, 8/2001-2/2004, "Collaborative Research: Ecology and Paleoecology of Groundwater-Augmented Lakes"-
- St. John's Water Management District, July 2001-December 2002, Characterization of Biological and Chemical Factors affecting Sedimentary Processes of the Lower St. John's River Estuary FL, Joint with UF Soil and Water Science Dept.
- Jupiter Inlet District Commission, June, 2000-Nov. 2003, Sedimentation Study of the Loxahatchee River Estuary, FL, Joint with UF Coastal Engineering

Research Interests

My research uses the sedimentary record from coastal and continental margin marine settings to inform us how changes in Earth's surface processes and tectonics are represented in the formation of strata. Within the discipline, these are known as "source-to-sink" studies, as they span from the generation of sediment in terrestrial watersheds to its ultimate accumulation as strata along ocean margins. I usually explain this type of research as being equivalent to trying to decipher meaning from old conversations, recorded in snippets of a language that we partially understand. My research career has evolved from first understanding how the "language" is constructed (i.e., process-based sedimentology) to now taking that knowledge and applying it to deciphering the preserved "conversations" of marine stratigraphy. Within marine sedimentology, there was emphasis on the former in the latter half of the last century and now innovations in scientific ocean drilling have allowed me to take that knowledge and apply it to samples and data that previously were not available to the academic scientific community.

A primary challenge in this area of research is quantifying the rates at which modern sedimentary processes operate and how completely the record of these processes is incorporated into the geologic record. For example, glaciers erode the landscape and can create distinctive marine deposits, but it is not understood how and to what degree these deposits reflect the dynamic behavior of the ice. My research has made fundamental contributions to understanding how river and ice-sheet discharge and marine processes directly affect the types of deposits that are created in the ocean; i.e., the "language" of marine stratigraphy. I use traditional sedimentology complemented by geochronology and geochemistry to address these questions, most often working in collaborative teams, which are the standard in modern marine geology. My publication record speaks to the range of scientists with whom I have collaborated, focusing mainly on high-latitude marine and fjord environments. I find these collaborations as one of the most rewarding aspects of my career because I have had the fortunate opportunity to work with stellar scientists and colleagues that have most definitely made me a better scientist.

I have concentrated my research on resolving how modern-Pleistocene global changes are recorded in and influence marine strata formation. I focus on this period in Earth's history because the planet we inhabit and which is rapidly changing has been dramatically influenced by dynamic Pleistocene ice sheets. From a practical standpoint, I work in this time period because we have fairly well-resolved global chronological tools, there are fewer technological challenges associated with collecting the strata, and most importantly, we can use observations from modern analogues to generate hypotheses on how each of the significant Pleistocene events should be recorded in the stratigraphic record. I focus on resolving how the cryosphere (i.e., glaciers & ice sheets) affects the landscape and how such changes are recorded in continental margin strata over time. My recent *ESR* review paper with Michele Koppes highlights this primary aspect of my career and the topics we address in the conclusions speak to the areas that I think merit future work by me and the larger Earth Surface Processes community.

When trying to establish how global events are preserved in strata, you need a prominent geomorphic process to generate sediment and an independent global record to compare against, which also is why I focus on Pleistocene glaciations. I gather marine sedimentary evidence of glacial water/sediment discharge and transport in the coastal environment near modern glaciers and ice sheets in Antarctica, Greenland, New Zealand, and Alaska. My research has quantitatively documented that over modern-Pleistocene time scales that temperate ice sheets, such as those found in New Zealand and Alaska, are exceptionally effective geomorphic agents, leaving a quantifiable record of landscape denudation in the sedimentary record. This concept is best discussed in our recent *PNAS* paper summarizing the main conclusions of the Integrated Ocean Drilling Program (IODP) expedition that on which I was a co-chief scientist. We designed this expedition to test the hypothesis that the transition to a highly erosive, glaciated, climate in southern Alaska in the late Pleistocene is the cause of a major tectonic reorganization of the highest coastal mountain range on Earth. The open-source analysis/coding I did in the *PNAS* paper is an example of this quantitative approach and reflects my future interests in advancing open-source analysis and reproducibility in stratigraphy.

Exploring how landscapes and tectonics respond to surface processes requires knowing where the erosion is focused and how it evolves over time. Whereas detrital thermochronology using sand-sized zircons and other heavy minerals is the standard for documenting erosion and exhumation, our lab group applies classic geochemical and thermochronologic methods to the more voluminous silt fraction that dominates the glacial marine sedimentary record. In Alaska and New Zealand, we demonstrate that glacial erosion tends to focus in tectonically weak areas in mountains; our recent paper in *EPSL* discussing our New Zealand work highlights the power of this approach. No other region on our planet is changing faster than the cryosphere, and my research program will continue to focus on deciphering from marine strata how glaciers and ice sheets have responded to past global forcing by using these provenance tools coupled with ice sheet modeling to continue to explore source-to-sink aspects of glacial marine sedimentology.

Aligned with my interest and training in marine sedimentology, I have used the opportunity of living in Florida to document the relative impact of human activities on coastal sedimentary environments and their natural variations that influence their habitability. The fairly recent urbanization of Florida's coastal watersheds provides a unique opportunity to correlate historical changes in land-use practices and coastal development with corresponding sedimentary records, placing the magnitude of such development within a longer temporal context of estuarine evolution. My collaborations with UF colleagues and those in the southeastern U.S. have been able to document how human development and urbanization affect estuaries and shoreline

changes in these regions. Funding from local agencies in Florida and from NASA and NOAA have allowed me to develop analytical geospatial tools and multi-year datasets that are ideally suited to recognizing how or if human impacts on the coastal environment can be differentiated from natural forcing. As sea-level continues to rise, my research in this area will become part of larger discussion of how and where we adapt as a society to these changes. I see this aspect of my career as the greatest way to give back to society that directly supported my graduate training and funds my research program.

Publications

*=student author

Peer-Reviewed

- Conlin, M. P., Adams, P. N., **Jaeger, J. M.**, & MacKenzie, R. (2020). Quantifying Seasonal-to-Interannual-Scale Storm Impacts on Morphology Along a Cuspate Coast With a Hybrid Empirical Orthogonal Function Approach. *Journal of Geophysical Research: Earth Surface*. <https://doi.org/10.1029/2020jf005617>
- Zindorf, M., Rush, D., **Jaeger, J.M.**, Mix, A., Penkrot, M. L., Schnetger, B., Sidgwick, F. R., Talbot, H. M., van der Land, C., Wagner, T., Walczak, M., & März, C. (2020). Reconstructing oxygen deficiency in the glacial Gulf of Alaska: Combining biomarkers and trace metals as paleo-redox proxies. *Chemical Geology*, 558(March), 119864. <https://doi.org/10.1016/j.chemgeo.2020.119864>
- Cowan, E. A., Zellers, S. D., Müller, J., Walczak, M. H., Worthington, L. L., Caissie, B. E., Clary, W. A., **Jaeger, J. M.**, Gulick, S. P. S., Pratt, J. W., Mix, A. C., & Fallon, S. J. (2020). Sediment controls dynamic behavior of a Cordilleran Ice Stream at the Last Glacial Maximum. *Nature Communications*, 11(1). <https://doi.org/10.1038/s41467-020-15579-0>
- Vermassen, F., Bjørk, A. A., Sicre, M.-A., **Jaeger, J. M.**, Wangner, D. J., Kjeldsen, K. K., et al. (2020). A major collapse of Kangerlussuaq Glacier's ice tongue between 1932 and 1933 in East Greenland. *Geophysical Research Letters*, 47, e2019GL085954.
- Wangner, D.J., Sicre, M.-A., Kjeldsen, K.K., **Jaeger, J.M.**, Bjørk, A.A., Vermassen, F., Sha, L., Kjær, K.H., Klein, V. and Andresen, C.S. (2020), Sea Surface Temperature Variability on the SE-Greenland Shelf (1796–2013 CE) and Its Influence on Thrym Glacier in Nørre Skjoldungesund. *Paleoceanography and Paleoclimatology*, 35: e2019PA003692. doi:[10.1029/2019PA003692](https://doi.org/10.1029/2019PA003692)
- Zindorf, M. C. März, T. Wagner, S.P.S. Gulick, H. Strauss, J. Benowitz, **J.M. Jaeger**, B. Schnetger, L. Childress, C. van der Land, M. La Rosa, L. LeVay (2019). Deep Sulphate-Methane-Transition and sediment diagenesis in the Gulf of Alaska (IODP Site U1417). *Marine Geology*, 417, /doi.org/10.1016/j.margeo.2019.105986.
- Penkrot*, M., **Jaeger, J.M.**, Cowan, E.A., St-Onge, G. and L. LeVay (2018). Multivariate modeling of glacial-marine lithostratigraphy combining scanning XRF, multisensory core properties, and CT imagery: IODP Site U1419. *Geosphere*, 10.1130/GES01635.1.
- Vyverberg*, K. L., **Jaeger, J. M.**, Dutton, A. (2018). Quantifying detection limits and uncertainty in X-ray diffraction mineralogical assessments of biogenic carbonates. *Journal of*

Sedimentary Research, v. 88, 1261–1275: <http://dx.doi.org/10.2110/jsr.2018.63>.

- Bloch, L., Wallis, N. J., Kamenov, G., & **Jaeger, J. M.** (2019). Production origins and matrix constituents of spiculate pottery in Florida, USA : Defining ubiquitous St Johns ware by LA-ICP-MS and XRD. *Journal of Archaeological Science: Reports*, 24(August 2018), 313–323. <https://doi.org/10.1016/j.jasrep.2019.01.012>
- Bender-Whitaker, C., K.M. Marsaglia, G.H. Browne, and **J.M. Jaeger**. Sedimentary processes and sequence stratigraphy of a Quaternary siliciclastic shelf-slope system: Insights from sand provenance studies, Canterbury Basin, New Zealand. *Tectonics, Sedimentary Basins and Provenance: A Celebration of William R. Dickinson's Career*. GSA Special Paper, in press.
- Mehta, A. **J.M., Jaeger, J. M.**, Boz, Z., & Khare, Y. P. (2018). Multiphase Layering and Mobility of Suspended Fine Sediment in Lake Apopka, Florida, *Int. Jour. of Computational Methods and Experimental Measurements*, 6(2), 433–445. doi.org/10.2495/CMEM-V6-N2-433-445.
- Penkrot*, M., L. LeVay and **Jaeger, J.M.**, (2017), Data report: X-ray fluorescence scanning of sediment cores, Site U1419, Gulf of Alaska. In Proceedings of the Integrated Ocean Drilling Program, 341: College Station, TX (Integrated Ocean Drilling Program). [doi:10.2204/iodp.proc.341.203.2017](https://doi.org/10.2204/iodp.proc.341.203.2017).
- Walczak, M.H. , J.S. Stoner, A.C. Mix, **J. M. Jaeger**, G.P. Rosen*, J.E.T. Channell, D. Heslop, C. Xuan; 2017. A 17,000 year paleomagnetic secular variation record from the southeast Alaskan margin: Regional and global correlations. *Earth and Planetary Science Letters*, [doi: 10.1016/j.epsl.2017.05.022](https://doi.org/10.1016/j.epsl.2017.05.022)
- Montelli, A., Gulick, S.P.S., Worthington, L.L., Mix, A.C., Davies-Walczak, M., Zellers, S.D., and **Jaeger, J.M.**, 2017. Late Quaternary glacial dynamics and sedimentation variability in Bering Trough, Gulf of Alaska. *Geology*, [doi:10.1130/G38836.1](https://doi.org/10.1130/G38836.1) .
- Marsaglia, K.M., G. H. Browne, S.C. George, D. Kemp, **J.M. Jaeger**, D. Carson, M. Richaud and IODP Expedition 317 Scientific Party, 2017. The Transformation of Sediment into Rock: Insights from IODP Site U1352, Canterbury Basin, New Zealand. *Journal of Sedimentary Research*, DOI: 10.2110/jsr.2017.15.
- Meridith, L. N., E. J. Screaton, **J. M. Jaeger**, S. R. James, and T. Villaseñor (2017), The impact of rapid sediment accumulation on pore pressure development and dehydration reactions during shallow subduction in the Gulf of Alaska, *Geochem. Geophys. Geosyst.*, 18, 189–203, [doi:10.1002/2016GC006693](https://doi.org/10.1002/2016GC006693).
- Screaton, E.J., T. Villaseñor, S.R. James, L.N. Meridith, **J.M. Jaeger**, and W.F. Kenney (2017), Data report: permeability, grain size, biogenic silica, and clay minerals of Expedition 341 sediments from Sites U1417 and U1418. In Proceedings of the Integrated Ocean Drilling Program, 341: College Station, TX (Integrated Ocean Drilling Program). [doi:10.2204/iodp.proc.341.202.2017](https://doi.org/10.2204/iodp.proc.341.202.2017).
- Cui, X., T.S. Bianchi, **J.M. Jaeger**, R.W. Smith, 2016. Biospheric and petrogenic organic carbon flux along southeast Alaska. *Earth and Planetary Science Letters*, v. 452, p. 238–246. [10.1016/j.epsl.2016.08.002](https://doi.org/10.1016/j.epsl.2016.08.002).
- Gulick, S.P.S., **Jaeger, J.M.**, Mix, A.C., et al., 2015, Mid-Pleistocene climate transition drives

- net mass loss from rapidly uplifting St. Elias Mountains, Alaska: *Proceedings of the National Academy of Sciences*, p. 201512549–6, doi: 10.1073/pnas.1512549112.
- Villaseñor, T. *, **Jaeger, J.M.**, and Foster, D.A., 2016, Linking Late Pleistocene alpine glacial erosion and continental margin sedimentation: Insights from $^{40}\text{Ar}/^{39}\text{Ar}$ dating of silt-sized sediment, Canterbury Basin, New Zealand: *Earth and Planetary Science Letters*, v. 433, p. 303–316, doi: 10.1016/j.epsl.2015.11.008.
- Jaeger, J.M.**, and Koppes, M.N., 2015, The role of the cryosphere in source-to-sink systems: *Earth Science Reviews*, p. 1–34, doi: 10.1016/j.earscirev.2015.09.011.
- Walczak, M.H., Mix, A.C., Willse, T., Slagle, A., Stoner, J.S., **Jaeger, J.M.**, Gulick, S., LeVay, L., Kioka, A., the IODP Expedition 341 Scientific Party, 2015, Correction of non-intrusive drill core physical properties data for variability in recovered sediment volume: *Geophysical Journal International*, v. 202, p. 1317–1323, doi: 10.1093/gji/ggv204.
- Johnson, J.M., L.J. Moore, K. Ells, A.B. Murray, P.A Adams, R.A. MacKenzie* III, and **J.M. Jaeger**. Recent shifts in coastline change and shoreline stabilization linked to storm climate change. *Earth Surface Processes and Landforms*, DOI: 10.1002/esp.3650.
- Villaseñor, T.*, **J.M. Jaeger**, K. Marsaglia and G.H. Browne, 2015. Evaluation of the relative roles of global versus local sedimentary controls on Middle - Late Pleistocene formation of continental margin strata, Canterbury Basin, New Zealand. *Sedimentology*, doi:10.1111/sed.12181.
- Addison, J. A., B. P. Finney, **J. M. Jaeger**, J. S. Stoner, R. D. Norris, and A. Hangsterfer (2013), Integrating satellite observations and modern climate measurements with the recent sedimentary record: An example from Southeast Alaska, *J. Geophys. Res. Oceans*, 118, 3444–3461, doi:10.1002/jgrc.20243.
- Jaeger, J.M.** and Kramer*, B., 2013. A continental shelf sedimentary record of Little Ice Age to modern glacial dynamics: Bering Glacier, Alaska, 2013. *Continental Shelf Research*. DOI: 10.1016/j.csr.2013.03.011.
- Villasenor*, T. and **J.M. Jaeger**. Data report: quantitative X-Ray Diffraction analysis from the Canterbury Basin, Expedition 317. Integrated Ocean Drilling Program Management International, Inc., doi:10.2204/iodp.proc.317.205.2014.
- Alonso-García, M., J.T. Andrews, S.T. Belt, P. Cabedo-Sanz, D. Darby, and **J.M. Jaeger**, 2013. A comparison between multiproxy and historical data (AD 1990–1840) of drift ice conditions on the East Greenland Shelf (~66°N). *The Holocene*. 23: 1672-1683, doi:10.1177/0959683613505343.
- Addison, J.A., B.P. Finney, W.E. Dean, M.H. Davies, A.M. Mix, and **J.M. Jaeger**, 2012. Productivity maxima and sedimentary d^{15}N during the Last Glacial Maximum termination in the Gulf of Alaska. *Paleoceanography*, Vol. 27, Pa1206, doi:10.1029/2011PA002161.
- Davies, M., A. Mix, J.S. Stoner, J. Addison, **J. M Jaeger**, B. Finney, J. Wiest, 2011. The deglacial transition on the Southeastern Alaska Margin: meltwater input, sea-level rise, marine productivity, and sedimentary anoxia. *Paleoceanography*, vol. 26, PA2223, doi:10.1029/2010PA002051.

- Willems, B.A, R.D. Powell, E.A. Cowan, **J.M. Jaeger**, 2011. Glacial outburst flood sediments within Disenchantment Bay, Alaska: Implications of recognizing marine jökulhlaup deposits in the stratigraphic record. *Marine Geology*, doi:10.1016/j.margeo.2011.03.004.
- Adams, P.N., N.D. Opdyke, and **J.M. Jaeger**, 2010. Isostatic uplift driven by karstification and sea-level oscillation: Modeling landscape evolution in north Florida. *Geology*, v. 38, p. 531-534, doi:10.1130/G30592.1
- Cowan, E.A., K.C. Seramur, R.D. Powell, B.A. Willems, S.P.S. Gulick, and **J.M. Jaeger**, 2010. Glacimarine Sequences from the Last Glacial Maximum and Neoglacial Preserved in Muir Inlet, Glacier Bay National Park, Southeastern Alaska. *Geological Society of America Bulletin*, doi: 10.1130/B26595.1.
- Van Eaton, A.R., A.R. Zimmerman, **J.M. Jaeger**, M. Brenner, W.F. Kenney, J.R. Schmid, 2010. A novel application of radionuclides for dating sediment cores from sandy, anthropogenically disturbed estuaries. *Marine and Freshwater Research* 61(11) 1268–1277, doi:10.1071/MF10028.
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- Jaeger, J.M.** and C.A. Nittrouer, 2006. A quantitative examination of modern sedimentary lithofacies formation on the glacially influenced Gulf of Alaska continental shelf. *Continental Shelf Research*, 26, 2178–2204.
- Bentley, S., A. Sheremet, and **J. Jaeger**, 2006. Event sedimentation, bioturbation, and preserved sedimentary fabric: field and model comparisons in three contrasting marine settings. *Continental Shelf Research*, 26, 2108-2124.

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- Jaeger, J.M. and J.D. Milliman. (2001) The Importance of Sediment Gravity Flows and Submarine Slope Failures in the Creation of Glacimarine Strata in Southern Alaska. 2000 Fall American Geophysical Union Meeting, Dec. 2001.
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- Jaeger, J.M., (2001) Developing High-Resolution Chronologies in Glacimarine Sediments: Examples From Southeastern Alaska. Geological Society, Special Meeting, Glacier-Influenced Sedimentation On High-Latitude Continental Margins, British Geological Society, University of Bristol, Bristol, England, March 2001
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- Nittrouer C.A. and J.M. Jaeger, (1996). Sediment accumulation in the Copper River dispersal system, EOS Transactions 77, OS203.

Milliman, J.D. D. Stocks, J.M. Jaeger and C.A. Nittrouer, (1996). Prince William Sound, Alaska: distal depocenter for Copper River sediment, EOS Transactions 77, OS202.

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Nittrouer C.A. and J.M. Jaeger, (1994). Advection of suspended particles in the Ross Sea and implications for the fate of biogeochemical materials, EOS Transactions 75, OS139.

Jaeger, J.M. and C.A. Nittrouer, (1992). Temporal controls on the formation of strata on the Amazon Subaqueous Delta, EOS Transactions 73, F268.

Service for the profession

- Participant in organizational meeting for the Marine and Coastal Geoscience Division, GSA 2019 meeting
- Co-Chair, workshop and white paper author, Assessment of the JOIDES Resolution in Meeting the Challenges of the IODP Science Plan, September 2018, Denver CO
- SEPM (Society for Sedimentary Geology), Shepard Medal Selection Committee, 2013-2016.
- Chair, U.S. Advisory Committee for Scientific Ocean Drilling (USAC). Term 2013-2015.
- Member National Science Foundation GeoPRISMS (Geodynamic Processes at Rifting and Subducting MarginS) mid-life review committee July-August 2015.
- Member, U.S. Advisory Committee for Scientific Ocean Drilling (USAC). Term 2012-2015.
- Member, National Science Foundation GeoPRISMS (Geodynamic Processes at Rifting and Subducting MarginS) Steering and Oversight Committee (GSOC), Nov. 2010-Mar. 2013.
- Workshop steering committee member (7 members), National Science Foundation GeoPRISMS-EarthScope Alaska Planning Workshop. This was a 2.5-day meeting in Portland, OR in Sept. 2011 with ~150 attendees who participated in break-outs and in plenary sessions that lead to a consensus plan for GeoPRISMS science in Alaska. As a GSOC member on the workshop steering committee, I was responsible for the creation of an Implementation Plan for the National Science Foundation (http://www.geoprisms.org/images/stories/documents/IP/december2013/GeoPRISMS_IP_Alaska_12-23-13.pdf)
- Served as member of Coastal Community Resiliency Initiative Focus Group, Department of Economic Opportunity, State of Florida, March 2012-present. As a member of this group of ~40 scientists, policy makers, and stakeholders, we will participate in a NOAA-funded, 5-year project to integrate planning for sea level rise adaptation into the existing planning framework in Florida.

National Science Foundation Proposal Review Panels:

- Ocean Sciences review panel member “CBED 05 - Technologies for the Study of Coastal Benthic Boundary Layer”, July 2005
- Office of Polar Programs/Arctic Natural Sciences/ARCSS, April 2006
- Office of Polar Programs/Arctic Natural Sciences BEST Panel, June 2007.
- Office of Polar Programs/Arctic Natural Sciences/ARCSS, April 2008
- Office of Polar Programs/Antarctic Integrated System Science Program, July 2014

Integrated Ocean Drilling Program (IODP) Panels:

- Science Steering and Evaluation Panel (SSEP), May 2006-May 2009
- US Advisory Committee for Scientific Ocean Drilling (USAC). Term 2011-2014
- External Proposal Reviewer for International Ocean Discovery Program (Oct. 2019)

Science Planning Workshops:

- Working Group Theme Chair, INVEST (IODP Ventures in Exploring Scientific Targets) workshop. INVEST was organized as a large, multidisciplinary, international community meeting, whose focus was to define the scientific research goals of a new ocean drilling program. University of Bremen, Germany, September 23-25, 2009.
- Convener and organizer of Alaska Community workshop jointly funded by Joint Oceanographic Institutions and NSF/EAR, 53 participants
- Co-breakout session chair, “Drilling to Decipher Long-term Sea-level Changes and Effects”, Joint Oceanographic Institutions, IODP-Management International, International Continental Scientific Drilling Program, DOSECC, and the Chevron Corporation, Salt Lake City, October, 2007
- Lead editor on a white paper resulting from a workshop held at Austin Texas, May 5-6, 2003 jointly sponsored by the Continental Dynamics Program, Earth Sciences Division, National Science Foundation (CD/GEO/EAR) and the Joint Oceanographic Institutions/U.S. Science Support Program (JOI/USSSP). 2004. Austin, TX. 80 pp
- Presenter at NSF MARGINS Source-to-sink planning workshop, 2001
- Attendee: NSF/NOAA/Navy Coastal Ocean Processes Program, Salt Lake City 1998, St. Petersburg FL 2004; NSF/JOI ANDRILL-US WORKSHOP, Denver, 2005
- Reviewed Manuscripts for: *Marine Geology, Journal of Sedimentary Research, Sedimentary Geology, Continental Shelf Research, Geology, Arctic, Antarctic, and Alpine Research, Estuaries, Antarctic Research Series Monograph, Marine Environmental Research, Geophysical Research Letters, Estuarine, Coastal and Shelf Science, Journal of Quaternary Science, Science Advances, PNAS, Geosphere*
- Reviewed Book Chapters: *STRATAFORM Master Volume*, Tom Bianchi "Biogeochemistry of Estuaries".
- *Reviewed Proposals for:* National Science Foundation (Office of Polar Programs, Ocean Sciences, Earth Sciences), American Chemical Society Petroleum Research Fund, NOAA National Undersea Research Program, National Geographic Society, Deutsche Forschungsgemeinschaft (DFG), Norwegian NWO Council for the Earth and Life sciences,

Professional Meetings and Workshops

Co-Convener, “T32E Marine Sedimentary Records of Climate-Tectonic Interactions I”, Fall 2015 American Geophysical Union Annual Meeting

Co-Convener, “T11A Active Tectonics and Magmatism of Alaska, the Aleutians, and northwest Canada”, Fall 2014 American Geophysical Union Annual Meeting

Co-Convener, “EP009. Exploring the interplay between solid Earth tectonics and surface processes from mountains to the sea”, Fall 2013 American Geophysical Union Annual Meeting

Co-Convener, “T048. Source to Subduction: The Interplay of Sedimentation and Deformation at Subduction Zones”, Fall 2011 American Geophysical Union Annual Meeting

Co-Convener, “PP21: Examining Late Quaternary Linkages Between Oceanographic, Terrestrial, and Cryospheric Dynamics in the Northeastern Pacific and Gulf of Alaska Regions”, Fall 2006 American Geophysical Union

Co-Convener, “H53: Exploring the Response of High-Latitude Landscapes and Surface Processes to Global Changes” oral and poster session, Fall 2005 American Geophysical Union

Co-Convener, “The Interplay of Collisional Tectonics and Late Cenozoic Glacial Climate in Alaska and the northeastern Pacific Ocean: A Continental Dynamics/NSF and JOI/USSSP Sponsored Workshop. May, 2003 University of Texas at Austin

Co-Convener, “Interplay of Tectonics, Glacial Climate, and Surficial Processes in the Evolution of Collisional Coastal Margins” oral and poster session, Fall 2002 American Geophysical Union

Co-Convener, “Continental Shelf Sedimentary Processes” poster session, 1996 AGU/ASLO meeting, San Diego

Invited Papers and Seminars

Ocean Discovery Lecturer, USSSP-IODP Ocean Discovery Lecture Series, for the 2016-2017 academic year

Guest Lecturer, April 10, 2015, University of Missouri, Columbia MO

Guest Lecturer, Sept. 17, 2015, University of South Florida, St. Petersburg, FL

Chapman Seminar Series, Guest Lecturer, March 5-7, 2014, University of Alaska Fairbanks

Alaska Quaternary Center (AQC) Guest Lecturer, April 12-16, 2010. Based at the University of Alaska Fairbanks, the AQC is an interdisciplinary association with a primary mission to promote Quaternary research and education in the North. Talks given at University of Alaska Fairbanks, University of Alaska Anchorage, and USGS Alaska Science Center on "Gulf of Alaska glacier melting events and the connection to oceanic and atmospheric circulation" and "The Quaternary Marine Record of Bering Glacier Dynamics: Ice streams, Surges, and Outburst Floods".

“Fjord Sedimentation: A proxy record for runoff?” Coastal Engineering, UF, 10/12/09.

“Sedimentary Records of Holocene Climate Change in the coastal Gulf of Alaska”, Coastal Engineering, UF, 10/13/07.

“The Interplay of Climate Change and Sea Level: Florida's Transformation over Geologic Time”
Oak Hammock Climate Change Short Course, Gainesville FL, 3/18/2008.

" Sediment and Organic Matter Dynamics in the LSJR", St. Johns River Water Management
District, Palatka, FL., 11/18/03

" Sediment transport and climate change: A view from continental shelf sediments ", Department
of Civil and Coastal Engineering, University of Florida, 11/15/03

"Geology of South Florida” Soil and Water Sciences SOS 5235 South Florida Ecosystems
(Distance Education), 5/22/03

"The Sedimentary Record of Anthropogenic Disturbance of Florida's Estuaries", Department of
Geology, University of South Florida, 4/14/03

"Estuarine Sedimentary Processes in Florida", University of South Florida, 2/15/03

"The Sedimentary Record of Anthropogenic Disturbance of Florida's Estuaries", Center For
Wetlands, University of Florida, 3/5/03

"Humans vs. Nature: Deciphering the historical sedimentary record of the Lower St. Johns River
Estuary", University of North Florida, 11/22/02

“A Quantitative Evaluation of Seasonal and Historical Sedimentary Processes in the Lower St.
Johns River Estuary”, Lower St. Johns River Research Symposium, Jacksonville University,
10/14/02

"Glacial erosion and the creation of high-latitude continental margin strata", Texas A&M
University, Galveston 10/22/02

"Glacial erosion and the creation of high-latitude continental margin strata", NSF MARGINS
Source-to-Sink Workshop, Lake Tahoe CA, 9/25/01

Courses Taught

Undergraduate

GLY 1000 Exploring Geological Sciences

GLY 2010C Physical Geology

GLY 2010C Honors Physical Geology

GLY 4552 Sedimentary Geology

GLY 3083C Fundamentals of Marine Sciences (Team Taught)

Graduate

GLY5733 Marine Geology (team taught)

GLY 5558 Sedimentology

GLY 5576 Continental Margin Stratigraphy

GLY6519 Modern Stratigraphy

Current students under your direction

- Michelle Penkrot, Ph.D.
- Krista McGillvary, M.Sc.

Names and placement of students awarded graduate degrees under your direction

- Mary Lindsey Bateman, Masters of Science, December 2002, currently employed by El Paso Oil and Gas, Houston TX
- Jesse Mausner, Masters of Science, May 2003, current employment unknown
- M.L. Hart, Masters of Science, December 2003, currently employed by Geohazards, Gainesville. Fl.
- L.M. Mertz, Masters of Science, expected August 2006, currently employed by Arcadis Geraghty & Miller Inc, Mahwah, NJ
- W. Vienne, Masters of Science, August 2005, currently employed by environmental firm Round Rock , TX
- Kevin Hartl, M. Sc., August 2006, employed by Chesapeake Energy Corporation, Oklahoma City, OK.
- Alice Hildick, M.Sc., December 2006, currently employed by Exxon/Mobil, Houston TX.
- Braden Kramer, M.Sc., May 2008, Brown Root Environmental, Aiken SC.
- Kendall Fountain, Ph.D., May 2010, Senior Manager, Mineral Resources, Plum Creek Timber, Athens Georgia
- Alex Ullrich, M. Sc., May 2009, Adjunct Professor, Valencia College-Osceola Campus
- Rich MacKenzie, Ph.D., August 2012. Exxon/Mobil, Houston TX.
- Dylan Loss, M.Sc., May 2013, ConocoPhillips, Houston TX
- Tania Villasenor, Ph.D., August 2015, Post-doctoral scientists, Santiago Chile
- Joe Kendall Salinas, M.Sc., August 2017, HSW Engineering, Orlando FL.
- Krista McGillvary, M.Sc., May 2018, ExxonMobil. Houston, TX
- Michelle Penkrot, Ph.D., December 2018, Currator, Gulf Coast Repository, Texas A&M

Graduate committee service

Ph.D.-58
M.Sc.-50

Service to department

Departmental Graduate Student Advisor and Coordinator (2008-2013)
Served on search and screen committee for faculty position in organic geochemistry (2000, 2003), geophysics (2002), solid earth geology (2005)
Student Awards Committee (2001-2013)
Tenure and Promotion Study Group
Faculty Merit Pay Committee (2005-present)

Graduate Studies Committee (2005-present)
Space Committee

Service to the College and University

Marine Sciences Committee 2020-present

College of Liberal Arts and Sciences Curriculum Committee, 2019-2020

University of Florida Press Advisory Board, 2016-2021

Graduation Marshal: 2009, 2012, 2014, 2015

Mentor for UF's University Scholars Program, 2006

I mentored geology undergraduate major Kelly Deuerling for her project on sedimentary weathering regimes in Alaska.

Mentor for UF's Student Science Training Program (SSTP)

I mentored two high school students, Kevin Humphreys and Mary Arden, in my lab in the summer of 2002.

Volunteered at local schools

Gave presentation to three 1st grade classes at Talbot Elementary on Rocks and Minerals (2005)