

CURRICULUM VITAE  
for  
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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:**

2021-Present, Professor, University of Florida  
2007-2021, 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**

Fellow, *Geological Society of America*, 2021  
Colonel Allan R. and Margaret G. Crow Term Professor, College of Liberal Arts and Sciences,  
University of Florida, 2014-2015  
*NASA* Group Achievement Award, Kennedy Space Center Dune Vulnerability Team, August  
2012

### **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, Paleoceanography, 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, <sup>210</sup>Pb, <sup>137</sup>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, Office of Polar Programs/Arctic Natural Sciences "Collaborative Research: Sediment and stability: Quantifying the effect of moraine building on Greenland tidewater glaciers." Sept 2023-August 2025. OPP- 2234523.
- 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), Arnaldo 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

## **Publications**

\*=student author

### ***Peer-Reviewed (60)***

Wu, C., J. Mossa, and **J.M. Jaeger**, 2022. Estimate of decadal-scale riverbed deformation and bed-load sediment transport during flood events in the lowermost Mississippi River. *Earth Surface Processes and Landforms*. DOI: 10.1002/esp.5316

Kyzar, T., I. Safak, J. Cebrian, M.W. Clark, N. Dix, K. Dietz, R.K. Gittman, R. Grizzle, **J. Jaeger**, K.R. Radabaugh, A. Roddenberry, A. Sheremet, C.S. Smith, E.L. Sparks, B. Stone, G. Sundin, M. Taubler, C. Angelini, 2021. Challenges and opportunities for sustaining coastal wetlands and oyster reefs in the southeastern United States. *Journal of Environmental Management*, Volume 296, 113178, doi.org/10.1016/j.jenvman.2021.113178.

Screaton, E.A., C. Summerfield, **J.M. Jaeger**, J. Whipple, 2021. Data report: permeability and grain size of sediments, IODP Expeditions 372 and 375. In *Proceedings of the Integrated Ocean Drilling Program*, 341: College Station, TX (Integrated Ocean Drilling Program).

<https://doi.org/10.14379/iodp.proc.372B375.205.2021>

- 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.
- 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
- 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 .
- 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.
- 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.
- 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.
- 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 <sup>40</sup>Ar/<sup>39</sup>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  $\delta^{15}\text{N}$  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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- Ullrich\*, A. D., E. A. Cowan, S. D. Zellers, **J.M. Jaeger**, R. D. Powell, 2009. Intra-Annual Variability in Benthic Foraminiferal Abundance in Sediments of Disenchantment Bay, an Alaskan Glacial Fjord. *Arctic, Antarctic, and Alpine Research*, 41: 257-271.
- Jaeger, J.M.**, Ashish Mehta, A., Faas, R., and Grella, M., 2009. Anthropogenic Impacts on Sedimentary Sources and Processes in a Small Urbanized Subtropical Estuary, Florida. *Journal of Coastal Research*, v. 25 (1): 30–47.
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- Chapman, J.B., Pavlis, T.L., Gulick, S., Berger, A., Lowe, L., Spotila, J., Bruhn, R., Vorkink, M., Koons, P., Barker, A., Picornell, C., Ridgway, K., Hallet, B., **Jaeger, J. M.**, McCalpin, J., Neotectonics of the Yakutat collision: Changes in deformation driven by mass redistribution, in *Tectonics and Seismic Hazards of Alaska*, edited by J. T. Freymueller, P.J. Haeussler, R.L. Wesson, G. Ekstrom, *Geophysical Monograph Series, Volume 179*, 350 pp., 2008.
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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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- Martin, J. B., J. E. Cable, **J.M. Jaeger**, K. Hartl, and C.G. Smith. 2006. Thermal and chemical evidence for rapid water exchange across the sediment-water interface by bioirrigation in the Indian River Lagoon, Florida. *Limnology and Oceanography*, 51: 1332-1341.
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- Jaeger, J.M.**, 2002. Developing High-Resolution Chronologies in Glacimarine Sediments: Examples From Southeastern Alaska. In: Dowdeswell, J.A., Ó Cofaigh, C. (eds). Glacier-influenced sedimentation in High-latitude continental margins. *Geological Society, London, Special Publications*, 203, 195-213.
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- Kastner, M., B. Carson, D. B. Bartlett, **J.M. Jaeger**, K. Bidle, and H. Jannasch. 2000. An In Situ Experiment of Methane Sequestration as Gas Hydrate, Authigenic Carbonate, and Loss to the Water Column and/or Atmosphere. *Gas Hydrates: Challenges for the Future*, G.D. Holder and P.R. Bishnoi, Ed. New York, New York. 32-37.
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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.**, M.L. Bateman, B. Carson, M. Kastner and D. Bartlett, (2000), Cold seep authigenic carbonates from Northern Hydrate Ridge, Cascadia: Models of Formation. EOS Transactions, AGU, 81(48), Fall Meeting. Suppl., Abstract OS61B-14, F638.
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- Jaeger, J.M.** and C.A. Nittrouer, (1996). Sedimentary environments of the northeastern Gulf of Alaska shelf: point source versus line source deposits, EOS Transactions 77, OS203.
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- 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.
- Jaeger, J.M.**, C.A. Nittrouer, and J.D. Milliman, (1995). Short-term sedimentary processes in a temperate glacial fjord: Icy Bay, Alaska, EOS Transactions 76, F290.
- 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. I was responsible for the creation of an Alaska/Aleutian Implementation Plan for the National Science Foundation ([http://www.geoprisms.org/images/stories/documents/IP/december2013/GeoPRISMS\\_IP\\_Alaska\\_12-23-13.pdf](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 (7 lectures)

***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*

ESC1000 Introduction to Earth Sciences  
GLY 1000 Exploring Geological Sciences  
GLY 2010C Physical Geology  
GLY 2010C Honors Physical Geology  
GLY 4552 Sedimentary Geology  
GLY 3083C Fundamentals of Marine Sciences

#### *Graduate*

GLY5733 Marine Geology (team taught)  
GLY 5558 Sedimentology  
GLY 5576 Continental Margin Stratigraphy  
GLY6519 Modern Stratigraphy  
GLY 6932 Special Topics in Geology/GIS Applications in Geological Science

### **Current students under your direction**

- Nicole Greco, Ph.D.

### **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
- Mary L. Hart, Masters of Science, December 2003, Geohazards, Gainesville. FL.
- Lisa M. Mertz, Masters of Science, August 2006, 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. U.S. Bureau of Ocean Energy Management.
- Dylan Loss, M.Sc., May 2013, ConocoPhillips, Houston TX
- Tania Villasenor, Ph.D., August 2015, Assistant Professor, Universidad de O'Higgins in 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, Curator, 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, 2022 to present)
- Served on search and screen committee for faculty positions in: climate change (2020); plate margin geology (chair; 2018); solid earth geology (2005); climate change organic geochemistry (2000, 2003), geophysics (2002)
- Student Awards Committee (2001-2013)
- Tenure and Promotion Study Group
- Faculty Merit Pay Committee (2005-2018)
- Graduate Studies Committee (2005-present)
- Space Committee (2014-2022)

### **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 1<sup>st</sup> grade classes at Talbot Elementary on Rocks and Minerals (2005)