

JULIA A. GUIMOND, PH.D.

Assistant Scientist
Department of Applied Ocean Physics and Engineering
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EDUCATION

- 2020 **Ph.D.**, Geological Sciences, University of Delaware
Focus: Coastal Hydrology
Thesis: Connecting Hydrology, Biology, and Geochemistry in a Coastal Wetland:
Feedbacks between Ecosystem Processes toward Predictive Understanding
Committee: Dr. Holly A. Michael (Advisor), Dr. Angelia Seyfferth, Dr. Kevan Moffett, Dr. Thomas McKenna
- 2013 **B.S.**, Geology-Biology Honors, Brown University
Thesis: Leaf wax hydrogen and carbon isotope ratios measured from base-to-tip in five
terrestrial C3 plant species: implications for paleoclimate reconstructions
Advisor: Dr. Yongsong Huang

RELEVANT PROFESSIONAL EXPERIENCE

- 2023-present **Assistant Scientist**, Department of Applied Ocean Physics & Engineering,
Woods Hole Oceanographic Institution
- 2020-2022 **NSF Earth Sciences Postdoctoral Fellow** (*NSF EAR-PF-1952627*), Department of
Civil and Resource Engineering, Dalhousie University
Mentors: Dr. Barret Kurylyk, Dr. Michelle Walvoord
- Summer 2020 **Research Assistant**, University of Delaware
Supervisor: Dr. Holly Michael
- 2019-2020 **Graduate Research Assistant**, University of Delaware
Advisor: Dr. Holly Michael
- 2018-2019 **Doctoral Fellow**, University of Delaware
Mentor: Dr. Holly Michael
- 2016-2018 **Delaware Environmental Institute Environmental Fellow**, University of Delaware
Mentor: Dr. Holly Michael
- 2015-2016 **Teaching Assistant**, University of Delaware
Professor: Dr. John Madsen, Dr. Susan McGearry
- Summer 2015 **National Conditional Coastal Assessment Field Leader**, University of New
Hampshire
Supervisor: Dr. Stephen Jones
- 2014-2015 **Laboratory Technician**, University of New Hampshire, Jackson Estuarine Laboratory
Supervisor: Dr. Stephen Jones
- 2012-2013 **Research Assistant**, Brown University, Department of Earth, Environmental and
Planetary Sciences
Advisor: Dr. Yongsong Huang

PUBLICATIONS

Published

- Mohammed A, **Guimond J**, Bense V, Jamieson R, McKenzie J, Kurylyk B. (2022) Mobilization of Subsurface Carbon Pools Driven by Permafrost Thaw and Reactivation of groundwater Flow: A Virtual Experiment. *Environmental Research Letters*.
<https://iopscience.iop.org/article/10.1088/1748-9326/aca701/pdf>
- Cantelon J, **Guimond J**, Robinson C, Michael H, Kurylyk B. (2022) Vertical Saltwater Intrusion in Coastal Aquifers Driven by Episodic Flooding: A Review. *Water resources research*.
<https://doi.org/10.1029/2022WR032614>
- Guimond, J. A.**, Mohammed, A. A., Walvoord, M. A., Bense, V. F., & Kurylyk, B. L. (2022). Sea-level rise and warming mediate coastal groundwater discharge in the Arctic. *Environmental Research Letters*, 17(4), 045027. <https://doi.org/10.1088/1748-9326/ac6085>
- Guimond, J. A.**, Mohammed, A. A., Walvoord, M. A., Bense, V. F., & Kurylyk, B. L. (2021). Saltwater intrusion intensifies coastal permafrost thaw. *Geophysical Research Letters*, 48, e2021GL094776. <https://doi.org/10.1029/2021GL094776>
- Sherren, K., Ellis, K., **Guimond, J.**, Kurylyk, B., LeRoux, N., Lundholm, J., Mallory, M., van Proosdij, D., Walker, A., Bowron, T., Brazner, J., Kellman, L., Turner II, B., (2021). Understanding multifunctional Bay of Fundy dykelands and tidal wetlands using ecosystem services – a baseline. *FACETS*.
- Santos, I. R., Burdige, D. J., Jennerjahn, T. C., Bouillon, S., Cabral, A., Serrano, O., Wernberg, T., Filbee-Dexter, K., **Guimond, J. A.**, & Tamborski, J. J. (2021). The renaissance of Odum’s outwelling hypothesis in “Blue Carbon” science. *Estuarine, Coastal and Shelf Science*, 255(December 2020), 107361. <https://doi.org/10.1016/j.ecss.2021.107361>
- Guimond, J. A.** and Tamborski, J. J., (2021). Salt marsh hydrogeology: a review. *Water*, 13, 543. <https://doi.org/10.3390/w13040543>
- Guimond, J. A.** and Michael, H. A., (2021). Effects of marsh migration on flooding, saltwater intrusion, and crop yield in coastal agricultural land subject to storm surge inundation. *Water Resources Research*, 57, e2020WR028326. <https://doi.org/10.1029/2020WR028326>
- Guimond, J. A.**, Yu, X., Seyfferth, A. L., and Michael, H. A. (2020). Using hydrological-biogeochemical linkages to elucidate carbon dynamics in coastal marshes subject to relative sea-level rise. *Water Resources Research*, 56, e2019WR026302. <https://doi.org/10.1029/2019WR026302>
- Guimond, J. A.**, Seyfferth, A. L., Moffett, K. B., and Michael, H. A. (2020). A physical-biogeochemical mechanism for positive feedback between marsh crabs and carbon efflux. *Environmental Research Letters*, 15(3), 34024. <https://doi.org/10.1088/1748-9326/ab60e2>
- Seyfferth, A. L., Bothfeld, F., Vargas, R., Stuckey, J. W., Wang, J., Kearns, K., Michael, H. A., **Guimond, J. A.**, Yu, X., and Sparks, D. L. (2020). Spatial and temporal heterogeneity of geochemical controls on carbon cycling in a tidal salt marsh. *Geochimica et Cosmochimica Acta*, 282, 1-18. <https://doi.org/10.1016/j.gca.2020.05.013>
- Gao, L., **Guimond, J. A.**, Thomas, E. and Huang, Y., (2015). Major trends in leaf wax abundance, $\delta^2\text{H}$ and $\delta^{13}\text{C}$ values along leaf venation in five species of C_3 plants: Physiological and geochemical implications. *Organic Geochemistry*, 78, 144-152. <https://doi.org/https://doi.org/10.1016/j.orggeochem.2014.11.005>

FELLOWSHIPS & GRANTS (*not a PI)

2020-2022 **NSF Earth Science Postdoctoral Fellowship** (*NSF EAR-PF-1952627*), Dalhousie University (\$174,000)

- 2019 **Professional Development Award (2)**, University of Delaware (\$1,000 • 2)
- 2018-2020* **NSF EAR Grant (NSF EAR-1759879)**, Played a large role developing and writing with PI H. Michael and Co-PI A. Seyfferth (\$374,175)
- 2018-2019 **Doctoral Fellowship**, University of Delaware (\$30,000+tuition)
- 2018 **Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI) Biennial Travel Grant**, CUAHSI (\$500)
- 2017-2018 **Delaware Sea Grant & National Estuarine Research Reserve Fellowship** (\$9,695)
- 2016-2018 **Carski Family Fellowship**, DENIN (\$67,000 + tuition)
- 2017 **Wharry Research Grant** (\$1,500)
- 2016 **Graduate Research Grant**, Geological Society of America (\$1,875)
- 2012 **NASA RI Space Grant/Brown University Teaching and Research Award** (\$4,500)

SYNERGISTIC ACTIVITIES

- 2021-2022 **AGU Hydrology Section Executive Committee**, Member
Role: Voting member of AGU Hydrology Section Executive Committee.
- 2021-2022 **Young Hydrological Society**, AGU H3S Representative
Role: Advise as representative of AGU student and early career scientists.
- 2019-2022 **AGU Hydrology Section Student Subcommittee**, Chair
Role: Develop and organize professional development cyberseminars for early career scientists in collaboration with CUAHSI. Seminars routinely attract over 200 attendees. Recordings of the seminars can be found online ([link](#)). Co-develop and co-lead town halls at AGU Fall Meetings. Editor and writer for H3S blog. Developed and wrote white paper to outline goals to increase diversity, equity, and inclusion in the AGU Hydrology Section ([link](#)).
- 2020-2021 **Student & Early Career Scientist Conference Planning Committee**, Member
Role: Co-organize the Student & Early Career Conference associated with the AGU Fall meeting. Led development of session on *Effective Mentoring*.
- 2020 **Hydrologic Sciences Conference Program Committee Review Board**, Member
Role: Interviewed AGU chair, vice chair, and early career candidates for the Hydrologic Sciences Conference program committee.
- 2019-2020 **Earth Sciences Graduate Student Association**, Founder and President
Role: Created graduate student association for the Department of Earth Sciences at the University of Delaware. Led department mentorship program and seminar series.
- 2019-2020 **Earth Sciences Chair Search Committee**, Member
Role: Advised as sole representative of Earth Sciences graduate students. Identify desired chair qualities and assessed applications and interviews of qualified candidates.
- 2019-2020 **CUAHSI Diversity & Inclusion Committee**, Member
Role: Brainstormed short- and long-term goals and wrote section of CUAHSI Diversity & Inclusion Statement.
- 2019 **AGU Hydrology Section Task Force**, Co-Chair
Role: Developed, distributed, and reviewed a brief and survey on section interest in and feedback on a Hydrology Section Meeting.
- 2018-2019 **Grand Challenges Symposium Series Planning Committee**, Co-Chair

- Role:* Co-organized a series of three symposia focused on water sustainability issues in the mid-Atlantic.
- 2017-2019 **UD Earth Sciences Graduate Student Leader and Faculty Liaison**
Role: Developed and managed a seminar series for graduate students. Founded a department peer mentoring program.
- 2016 & 2017 **DENIN Graduate Symposium Planning Committee, Co-Chair**
Role: Co-organized Environmental Graduate Student Symposium which included oral and poster presentations and approximately 100 attendees.
- 2016 **DENIN Pitch:90 Planning Committee, Chair**
Role: Organized a graduate student elevator pitch competition. Over 20 graduate students participated and were judged by a diverse panel of judges.

TEACHING & MENTORSHIP EXPERIENCE

Classroom Instruction

- Fall 2015 **Teaching Assistant**, Geology of Dynamic Earth, University of Delaware
 Spring 2016 **Teaching Assistant**, Earth Sciences, University of Delaware
 Fall 2011 **Teaching Assistant**, Environmental Geochemistry, Brown University

Courses Developed

- Summer 2011 Environmental Geochemistry Laboratory Sections

Guest Lectures

- 2020 “Coastal Wetland Hydrology”, Coastal Water Resources, Dalhousie University
 2020 “Arctic Hydrology in a Changing Climate”, Environmental Studies, Roanoke College

Undergraduate Mentees

- 2016-2017 Shailja Gangrade, Civil and Environmental Engineering, University of Delaware
 2016 Catherine Medlock, Environmental Sciences, University of Delaware
 2016-present Women’s Swimming and Diving Team Mentor

Training

- 2019 **Bias Training**, University of Delaware
 2018 **Center for the Integration of Research, Teaching & Learning**, University of Delaware
 Pedagogy course focused on best-practices in course design. Developed complete syllabus for course exploring the intersection between water and society.

PROFESSIONAL TRAINING

- 2021 **Coastal Sustainability NSF Convergence Accelerator Workshop**, Virtual
Participant, National Science Foundation
- 2021 **SHared Operational REsearch Logistics In the Nearshore Environment (SHORELINE) Workshop**, Virtual
Participant, University of Florida
- 2018-2019 **Cross-Disciplinary Problem-Solving Workshop**, Coastal Virginia
Participant and Group Member, Virginia Sea Grant
- 2017 **Cruise AT37-11 R/V Atlantis & DSV Alvin**, 9° 50’ East Pacific Rise
Laboratory Technician, Principal Investigator: Dr. George Luther

INVITED SEMINARS

- 2021 **Woods Hole Oceanographic Institution**, Applied Ocean Physics and Engineering
- 2021 **Colorado School of Mines**, Hydrologic Science and Engineering Program
- 2021 **Marine Biological Laboratory**, Ecosystems Center
- 2020 **University of Wisconsin – Madison**, Department of Geoscience
- 2020 **University of Delaware**, Department of Earth Sciences
- 2019 **Los Alamos National Laboratory**
- 2019 **CUAHSI-H3S Cyberseminar** ([link](#))

CONFERENCE PRESENTATIONS

- 2022 **Guimond, J. A.**, Demir, C., Cardenas, B. M., McClelland, J. W., Walvoord, M. A., Kurylyk, B. L. Groundwater Salinity Dynamics and Drivers Along an Actively Degrading Arctic Coastline. *American Geophysical Union Fall Meeting*, Chicago, Illinois, December 14, 2022.
- 2021 **Guimond, J. A.**, Mohammed, A., Walvoord, M. A., Bense, V. F., Kurylyk, B. L. Feedbacks between sea-level rise, groundwater flow, and permafrost extent in the coastal zone. *American Geophysical Union Fall Meeting*, New Orleans, Louisiana, December 16, 2021.
- Guimond, J. A.**, Mohammed, A., Walvoord, M. A., Bense, V. F., Kurylyk, B. L. Climate change impacts on Arctic submarine groundwater discharge. *Geological Society of America Annual Meeting*, Portland, Oregon, October 13, 2021. Invited Presentation.
- Guimond, J. A.**, Mohammed, A., Walvoord, M. A., Bense, V. F., Kurylyk, B. L. Coastal Arctic hydrogeological activation in a changing climate. *Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting*, virtual, June 25, 2021. Oral Presentation.
- Guimond, J. A.**, Mohammed, A., Walvoord, M. A., Kurylyk, B. L. Sea-level rise impacts on coastal permafrost and land-sea connectivity. *Coastal Zone Canada Conference*, virtual, June 15, 2021. Oral Presentation.
- 2020 **Guimond, J. A.**, Walvoord, M. A., Kurylyk, B. L. Ocean-aquifer exchange in a warmer Arctic. *American Geophysical Union Fall Meeting*, virtual, December 16, 2020. eLightning Presentation.
- Guimond, J. A.**, Yu, X., Seyfferth, A. L., Michael, H. A. Using hydrological-biogeochemical linkages to elucidate carbon dynamics in coastal marshes subject to relative sea-level rise. *Delaware Environmental Institute Environmental Symposium*, Newark, DE. Poster Presentation. *Presentation Award Recipient*.
- 2019 **Guimond, J. A.**, Yu, X., Seyfferth, A. L., Michael, H. A. Using hydrological-biogeochemical linkages to elucidate carbon dynamics in coastal wetlands subject to relative sea-level rise. *American Geophysical Union Fall Meeting*, San Francisco, California, December 13, 2019. Oral Presentation.
- Guimond, J. A.**, Kurylyk, B. L. High-latitude aquifer-ocean exchange in a changing climate. *ArcticNet*, Halifax, Nova Scotia, Canada, December 3, 2019. Poster Presentation.

- Guimond, J. A.**, Yu, X., Seyfferth, A. L., Michael, H. A. Using hydrological-biogeochemical linkages to elucidate coastal wetland carbon dynamics today and tomorrow. *Coastal and Estuarine Research Federation Biennial Conference*, Mobile, Alabama, November 5, 2019. Oral Presentation.
- Guimond, J. A.**, Yu, X., Michael, H. A. Marsh migration impacts on saltwater intrusion into agricultural fields: a modeling study. *Clean and Healthy Chesapeake Bay Conference*, College Park, Maryland, October 29, 2019. Poster Presentation.
- Guimond, J. A.**, Yu, X., Michael, H. A. Sea-level rise changes groundwater-surface water exchange and hydro-redox zonations in a temperate salt marsh: implications for carbon cycling. *MODFLOW & More*, Golden, Colorado, June 3, 2019. Oral Presentation.
- Guimond, J. A.**, Yu, X., Michael, H. A., Sea-level rise changes groundwater-surface water exchange and hydro-redox zonations in a temperate salt marsh: implications for carbon cycling. *Delaware Applied Coastal Research Symposium*, Newark, Delaware, March 27, 2019. Invited Oral Presentation.
- Guimond, J. A.**, Michael, H. A. Marsh crab impacts on hydrology and biogeochemistry alter coastal carbon cycling. *Xiamen Symposium on Marine Environmental Sciences*, Xiamen, China, January 7, 2019. Oral Presentation.
- 2018 **Guimond, J. A.**, Michael, H. A. Marsh crab impacts on hydrology and biogeochemistry alter coastal carbon cycling. *American Geophysical Union Fall Meeting*, Washington D.C., December 13, 2018. Poster Presentation.
- Guimond, J. A.**, Michael, H. A. Positive feedback between crabs and carbon efflux in coastal marshes. *Graduate Student Symposium*, Lewes, Delaware, May 5, 2018. Poster/Oral Presentation.
- Guimond, J. A.**, Michael, H. A. Spatial and temporal impacts of crab burrows on groundwater-surface water interactions and redox conditions in a tidal wetland. *Susan Trumbore Symposium*, Newark, Delaware, April 18, 2018. Poster Presentation.
- Guimond, J. A.**, Michael, H. A. Crabs increase carbon export in a warming climate: insights from a tidal wetland. *Delaware Environmental Institute Environmental Symposium*, Newark, Delaware, March 15, 2018. Oral Presentation.
- Guimond, J. A.**, Michael, H. A. Linkages between hydrology, biology, and geochemistry in a tidal wetland. *Delaware Wetlands Conference*, Wilmington, Delaware, February 1, 2018. Oral Presentation.
- 2017 **Guimond, J. A.**, Seyfferth, A. L., Michael, H. A. Hydrologically mediated iron reduction/oxidation fluctuations and dissolved organic carbon exports in tidal wetlands. *American Geophysical Union Fall Meeting*, New Orleans, Louisiana, December 14, 2017. Poster Presentation.
- Guimond, J. A.**, Seyfferth, A. L., Michael, H. A. Spatial and temporal impacts of crab burrows on groundwater-surface water interactions and redox conditions in a tidal wetland. *Geological Society of America Annual Meeting*, Seattle, Washington, October 25, 2017. Poster Presentation.
- Guimond, J. A.**, Duque, C., Yu, X., Michael, H. A. Connecting Physical Hydrology to Biology and Geochemistry in a Delaware Salt Marsh. *Graduate Student Symposium*, Lewes, Delaware, May 5, 2017. Poster Presentation.
- 2016 **Guimond, J. A.**, Yu, X., Duque, C. Michael, H. A. Spatial patterns in salt marsh porewater dissolved organic matter over a spring-neap tidal cycle: insight to the impact of

hydrodynamics on lateral carbon fluxes. *American Geophysical Union Fall Meeting*, San Francisco, California, December 12, 2016. Poster Presentation.

- 2013 **Guimond, J. A.**, Huang, Y., Gao, L. Leaf wax hydrogen and carbon isotope ratios measured from base-to-tip in five terrestrial C3 plant species: implications for paleoclimate reconstructions. *Northeastern Section Geological Society of America Annual Meeting*, Bretton Woods, New Hampshire, March 18, 2013. Poster Presentation.

CONTRIBUTED ABSTRACTS

- 2022 Demir, C., **Guimond, J.**, Bristol, E., Bullock, E., Schaal, I., Henderson, P., ... & Cardenas, M. B. Seasonal Dynamics of Groundwater Flow and Transport in the Nearshore Arctic. *American Geophysical Union Fall Meeting*, Chicago, Illinois, December 15, 2022.
- Stribling, S., Mohammed, A. A., McKenzie, J. M., & **Guimond, J.** How Does Climate Warming Affect the Mass Transport of a Nonreactive Solute in a Thawing Permafrost Environment?. *American Geophysical Union Fall Meeting*, Chicago, Illinois, December 12, 2022.
- 2021 Michael, H. A., **Guimond, J. A.**, Chin, Y., Fagherazzi, S., Gedan, K., Kirwan, M., Seyfferth, A., Stotts, S., Tully, K. Drivers and impacts of marsh migration in the coastal critical zone. *American Geophysical Union Fall Meeting*, New Orleans, Louisiana, December 15, 2021.
- Mohammed, A., **Guimond, J.**, Bense, V., Kurylyk, B., Jamieson, R., McKenzie, J. Coupled heat-solute transport processes in permafrost-affected groundwater systems. *American Geophysical Union Fall Meeting*, New Orleans, Louisiana, December 15, 2021.
- Tamborski, J, **Guimond, J.** Upscaling salt marsh porewater exchange along eastern North America. *Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting*, virtual, June 23, 2021.
- Kurylyk, B., Cantelon, J., Stanic, S., LeRoux, N., Dolan, K., **Guimond, J.** Saltwater intrusion: Over, under, or through? *Coastal Zone Canada Conference*, virtual, June 15, 2021.
- 2020 Mohammed, A., Bense, V., Kurylyk, B., Jamieson, R., **Guimond, J.** Modeling reactive solute transport in permafrost-affected groundwater systems. *American Geophysical Union Fall Meeting*, virtual, December 16, 2020.
- 2019 Michael, H., Kim, K., Heiss, J., **Guimond, J.**, Ullman, W., Chan, C., McAllister, S. Dynamic hydrologic and biogeochemical processes along coastlines as potential targets for biogeophysical methods. *American Geophysical Union Fall Meeting*, San Francisco, California, December 13, 2019. Invited Presentation.
- Yücel, M., **Guimond, J.**, Chace, P., Estes, E., Cagri Yapan, B., Cao, X. and Luther, G. Distinct Chemical Microenvironments Drive Two Different Macrofaunal Habitat Types in the East Pacific Rise, 9°50 N Hydrothermal Ecosystems. *Goldschmidt Conference*, Barcelona, Spain, August 19, 2019. Oral Presentation.
- 2017 Michael, H., Kim, K., **Guimond, J.**, Heiss, J., Ullman, W., Seyfferth, A. Hydrologic influence on redox dynamics in estuarine environments. *American Geophysical Union Fall Meeting*, New Orleans, LA, Dec. 14, 2017. Invited Presentation.
- Michael, H., Duque, C., Geng, X., **Guimond, J.**, Heiss, J., Kim, K., Koneshloo, M., Kreyns, P., Russionello, C., Scott, K., Yu, X. Submarine groundwater discharge across

scales from marsh to shelf. *Geological Society of America Annual Meeting*, Seattle, Washington, October 22-25, 2017. Invited Presentation.

- 2016 Michael, H., Yu, X., LeMonte, J., Sparks, D., Kim, K., Heiss, J., Ullman, W., **Guimond, J.**, Seyfferth, A. Geochemical response to hydrologic change along land-sea interfaces. *American Geophysical Union Fall Meeting*, San Francisco, California, December 14, 2016. Invited Presentation.

CONVENED SESSIONS & TOWN HALLS

- 2022 Marshall, A. M., **Guimond, J.**, Mohammed, A., & Evans, S. G. Frozen Ground Hydrology: Moving Toward a Process-Based Understanding. Session in *AGU Fall Meeting 2022*. AGU.
- Nathalie Voisin, Duerrast, H., **Guimond, J.**, (2022, June). Islands' Dynamic Hydrological Processes in a Changing World. Session in *AGU Frontiers in Hydrology Meeting 2022*. AGU.
- Danyka Byrnes, **Guimond, J.**, Tyler, S., Dymond, S., Bhaskar, A., (2022, June). Professional Opportunities for Student and Early Career Researchers: When to Jump and When to Duck! Session in *AGU Frontiers in Hydrology Meeting 2022*. AGU.
- 2021 Douglas, P., Olefeldt, D., **Guimond, J.**, Kuhn, M. (2021, December). Interactions between hydrological and biogeochemical change in permafrost environments. Session in *AGU Fall Meeting 2021*. AGU.
- Guimond, J.** (2021, December). Coming together after being apart: A cross-career stage conversation about AGU Hydrology Section goals and initiatives. Town hall in *AGU Fall Meeting 2021*. AGU.
- Martin, P., Oakes, R., Jones, J., Neto, A., Greene, C., Robson, E., Rao, Y., **Guimond, J.**, Jackson, N. Student and early career voices at AGU. Town hall in *AGU Fall Meeting 2021*. AGU.
- Lee, E., Byrnes, D., Matos, K., Knights, D., **Guimond, J.** Finding Your Place for Change: How and Where to Take an Active Role in DEI Initiatives as Early-Career Researchers and Students. Town hall in *AGU Fall Meeting 2021*. AGU.
- Johnson, K., John, K., Koppes, M., Brigham-Grette, J., Torn, M., Reimers, C., Newman, P., Jagannathan, K., **Guimond, J.**, Hills, D., Tripathi, A. Toward Increasing Justice, Equity, Diversity, and Inclusion (JEDI) and Community Engagement in Climate Research: Challenges, Opportunities, and Successes. Town hall in *AGU Fall Meeting 2021*. AGU.
- Tamborski, J., Rodellas, V., **Guimond, J.** (2021, June). Groundwater-surface water exchange across the land-ocean continuum. Session in *Aquatic Sciences Meeting 2021*. ASLO.
- 2020 Schutte, C. A., **Guimond, J.**, Rossi, R., & Jones, S. F. (2020, December). Integrating Hydrology, Biogeochemistry, and Ecology in Coastal Wetlands To Understand Their Response to Global Environmental Change. Session in *AGU Fall Meeting 2020*. AGU.
- 2019 Hall, C. A., **Guimond, J.**, Illingworth, S. M., & van Emmerik, T. H. (2019, December). Building Momentum: Developing Sustainable Cross-Disciplinary Collaborations. Town hall in *AGU Fall Meeting 2019*. AGU.

MEDIA COVERAGE

- 2022 Castanon, L. Living on the edge. *OCEANUS*. (2022).
<https://www.whoi.edu/oceanus/feature/living-on-the-edge/> ([link](#))
- 2021 Simpkins, G. Saltwater intrusion impacts. *Nat Rev Earth Environ* **2**, 740 (2021).
<https://doi.org/10.1038/s43017-021-00231-2> ([link](#))
- CityNews Everywhere. “New Dalhousie study says sea-level rise causing permafrost to thaw is threatening ecosystems”. ([link](#))
- Global News. “Sea-level rise causing frozen grounds along Arctic coastlines to thaw, study suggests”. ([link](#))
- 2017 UDaily Research Article, “UD Student Uses Delaware Sea Grant Fellowship to Study Coastal Marshes”. ([link](#))
- NERRA, “Graduate Researcher Studies Marsh Hydrology as Shorelines Change”. ([link](#))

JOURNAL REVIEWS

<i>Biogeochemistry</i>	<i>Journal of Hydrology</i>
<i>Cryosphere</i>	<i>Nature Communications</i>
<i>Ecohydrology</i>	<i>Reviews of Geophysics</i>
<i>Estuaries and Coasts</i>	<i>Science Advances</i>
<i>Estuarine, Coastal, and Shelf Science</i>	<i>Water Resources Research</i>
<i>Journal of Coastal Research</i>	<i>WIREs Water</i>

RELATED OUTREACH & COMMUNITY SERVICE

What is Seawater Intrusion Community Event

“Saltwater Intrusion: Processes, Mitigation, and Prevention” Oral presentation, Plymouth, MA, 2022

University of Delaware Coast Day

Volunteer, Lewes, DE, 2019

Delaware National Estuarine Research Reserve

Education Volunteer, Dover, DE, 2017-2019

University of Delaware TIDE Camp

Volunteer, Lewes, DE, 2017

Sassafras River Association

Science Committee Member, Georgetown, MD, 2016-2018

Town of Barrington, New Hampshire Conservation Commission

Alternate Voting Member, Barrington, NH, 2013-2015

SOCIETY MEMBERSHIPS

American Geophysical Union
Geological Society of America
Coastal & Estuarine Research Federation
Society for Women in Marine Science