

# ELIZABETH H. DAVIS

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Coastal & Ocean Processes Section  
VIMS, William & Mary  
Andrews Hall, 1309 Greate Road  
Gloucester Point, VA 23062

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## EDUCATION

- 2026     **Ph.D. in Coastal and Marine Sciences**, *Virginia Institute of Marine Science (VIMS), William & Mary*  
Concentration: Geological Oceanography  
Sub-concentration: Marine Policy  
Thesis: *Intrinsic Properties Influencing Coastal Dune Dynamics and Resilience*  
Advisor: Dr. Christopher Hein
- 2020     **M.S. in Geological Sciences**, *University of Delaware*  
Thesis: *A Reassessment of the Late Quaternary Surficial Geology of the Lower Delmarva Peninsula, VA*  
Advisor: Dr. Michael O'Neal
- 2016     **B.A. in Environmental Geoscience**, *West Virginia University*  
Graduated *Summa Cum Laude*  
Minored in Geology and Geography

## PROFESSIONAL EXPERIENCE

- 2020–2026     **Graduate Research Assistant**, *VIMS – Gloucester Point, VA*  
Designed and led field, laboratory, and numerical modeling experiments to quantify which physical and ecological characteristics of coastal sand dunes reduce erosion during storms. Co-managed federal awards and research grants.
- 2021     **Intern**, *US Army Corps of Engineers, ERDC – Field Research Facility, Duck, NC*  
Collect, process, and analyze various field data to investigate the coupled role of ecology & sedimentology on beach and dune dynamics and morphology. Quantify physical differences between natural and constructed (i.e., man-made) coastal sand dunes and assess the implications for resilience to storm erosion and flooding hazards.
- 2018–2020     **Graduate Research Assistant**, *University of Delaware – Newark, DE*  
Used Native American cultural artifacts and radiocarbon dating to refine USGS geological maps of the Eastern Shore of Virginia.
- 2017–2019     **Staff Geoscientist**, *AECOM — Conshohocken, PA*  
Conduct remedial investigations. Apply US Environmental Protection Agency (EPA), Pennsylvania & New Jersey Department of Environmental Protection Technical Guidance documents, laws, and policies to remediation projects for various contaminated media and ensure efficient site closure. Compose technical regulatory reports.

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- 2016–2017 **Environmental Geoscientist**, *Kleinfelder, Inc.* — Hamilton, NJ  
Case Manager of former ExxonMobil petroleum retail sites. Compose technical regulatory reports and conduct remedial investigations. Evaluate site-specific natural conditions and plan remedial actions meeting a variety of regulatory factors and guidelines.
- 2016 **Intern**, *Friends of Decker's Creek* — Morgantown, WV  
Facilitate community outreach & education regarding environmental degradation of local watershed on behalf of 501(c)(3) nonprofit organization. Coordinate volunteer groups for maintenance & restoration.

### FELLOWSHIPS & SCHOLARSHIPS

- 2024–2025 **MacWhorter Family Fellowship** (\$3,168), VIMS
- 2024–2025 **Scholars Award** (\$25,000), Philanthropic Educational Organization (P.E.O.)
- 2023–2024 **James E. & Anne McCracken Rogers Fellowship** (\$2,282), VIMS
- 2022–2023 **Bruce K. Goodwin Fellowship** (\$2,342), VIMS
- 2021–2022 **Zeigler Fellowship** (\$3,000), VIMS
- 2020–2021 **R. Gordon & Catherine B. Smith Fellowship** (\$3,000), VIMS
- 2020–2022 **Provost Distinguished Graduate Fellowship** (tuition waiver, \$36,000), VIMS
- 2012–2016 **Academic Excellence II Scholarship** (\$24,000), West Virginia University
- 2012–2016 **Greater Tuckahoe Area Merchant's Association Scholarship** (\$3,000)
- 2015–2016 **Philip & Michal Flach Scholarship** (\$2,000), West Virginia University
- 2014–2015 **David Charnews Scholarship** (\$3,000), West Virginia University
- 2013–2014 **Eberly College of Arts & Sciences Scholarship** (\$1,500) West Virginia University

### GRANTS, HONORS, & AWARDS

- 2024 **Outstanding Student Presentation Award**, American Geophysical Union Fall Meeting 2023
- 2023 **Best Student Paper Award**, Coastal Sediments '23 Conference
- 2021 **Equipment Trust Fund Grant** (\$2,000), VIMS
- 2020 **Graduate Student Government Outstanding Senator**, University of Delaware
- 2019 **Graduate Student Research Grant** (\$1,875), Geological Society of America
- 2016 **Undergraduate Enrichment Award** (\$250), Eberly College of Arts & Sciences, West Virginia University
- 2016 **Environmental Geoscience Outstanding Senior**, West Virginia University
- 2016 **Phi Beta Kappa**, Alpha Chapter of West Virginia University

#### *Travel Grants*

- 2025 **Batten School of Coastal & Marine Science** (\$500), VIMS
- 2024 **Graduate Student Association Travel Grant** (\$300), VIMS
- 2024 **Batten School of Coastal & Marine Sciences Travel Grant** (\$600), VIMS
- 2023 **Graduate Student Association Travel Grant** (\$300), VIMS
- 2023 **School of Marine Science Travel Grant** (\$500), VIMS
- 2021 **Lou Burnett Award** (\$300), Southern Association of Marine Laboratories

2020 **Kenneth Weaver Student Travel Grant** (\$120), Geological Society of America  
2020 **Graduate Student Travel Grant** (\$600), University of Delaware

## PUBLICATIONS

### *Journal Articles*

3. White, A.E., Cohn, N., **Davis, E.H.**, Hein, C.J., Zinnert, J.C., (2024). "Coastal dune management affects above and belowground biotic characteristics" *Nature Scientific Reports*. <https://doi.org/10.1038/s41598-024-73312-z>
2. Heminway, S.S.\*, Cohn, N., **Davis, E.H.**, White, A.E., Hein, C.J., Zinnert, J.C. (2024). Exploring Ecological, Morphological, and Environmental Controls on Coastal Foredune Evolution at Annual Scales Using a Process-Based Model. *Sustainability*, 16(8), 3460. <https://doi.org/10.3390/su16083460>
1. **Davis, E.H.**, Hein, C.J., Cohn, N., White, A.E., Zinnert, J.C. (2024). Differences in internal structure between natural, managed, & constructed coastal dunes. *Geomorphology*, 109083. <https://doi.org/10.1016/j.geomorph.2024.109083>

### *Conference Proceedings*

3. **Davis, E.H.**, Hein, C.J., Cohn, N., Zinnert, J.C., Hein, E.A. (2025). "Eco-morphodynamic dune response to beach nourishment along the northern Outer Banks Coast, North Carolina, USA, *The Coastal Dynamics Proceedings 2025*.
2. **Davis, E.H.**, Cohn, N., Heminway, S.S.\*, Skaden, J., Hein, C.J. (2023). Linking Variations in Internal Coastal Foredune Moisture Dynamics to Erosion Vulnerability, *The Coastal Sediments Proceedings 2023*, World Scientific. [https://doi.org/10.1142/9789811275135\\_0062](https://doi.org/10.1142/9789811275135_0062) (awarded Best Student Paper)
1. Heminway, S.S.\*, **Davis, E.H.**, Cohn, N., Skaden, J., Anderson, A., Hein, C.J. (2023). Modeled changes in foredune morphology influenced by variable storm intensity and sea-level rise, *The Coastal Sediments Proceedings 2023*, World Scientific. [https://doi.org/10.1142/9789811275135\\_0064](https://doi.org/10.1142/9789811275135_0064)

### *Data*

2. White, A.E., Cohn, N., **Davis, E.H.**, Hein, C.J., & Zinnert, J.C. (2024). Coastal Foredune Belowground Biomass, Aboveground Biomass, and Species Cover [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.11370397>
1. **Davis, E.H.**, Hein, C.J., Cohn, N., White, A.E., & Zinnert, J.C. (2023). North Carolina Outer Banks, USA Coastal Foredune Sediment Cores - Grain Size Data & Core Log Descriptions (1.0) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.10137063>

## PUBLICATIONS in PROGRESS

2. **Davis, E.H.**, Cohn, N., Zinnert, J.C., Hein, C.J. "Modeling vegetation-driven feedbacks on coastal dune erosion and recovery" (*in prep*)

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2. **Davis, E.H.**, Hein, C.J., Cohn, N., & Zinnert, J.C. "The conditional role of internal dune sedimentologic and biotic structure in moderating storm-induced coastal foredune erosion" (*in revision*)

\*Denotes undergraduate mentee.

### NON-PEER-REVIEWED PUBLICATIONS

- 2025 **Davis, E.H.**, "Intrinsic Properties Influencing Coastal Dune Dynamics and Resilience" Doctoral Dissertation. Virginia Institute of Marine Science, William & Mary.
- 2025 Hein, C.J., Boggess, A., Cahoon, K., **Davis, E.H.**, Ciarletta, D., Georgiou, I.Y., Harris, M., Hein, E.A., McCormick, W.M., Shawler, J. "Holocene Barrier Dynamics and Management on the Eastern Shore of Virginia". Virginia Geological Field Conference 2025, Field Trip Guide.
- 2022 **Davis, E.H.**, Haddad, J., "Defining & Striving for Resilience in Virginia's Transportation Sector", White Paper. Virginia Coastal Policy Center, VA. <https://scholarship.law.wm.edu/vcpclinic/73>
- 2022 **Davis, E.H.**, Shifting Sands: Coastal Dunes in Motion. VA SEA 2022 Lesson Plans. Virginia Institute of Marine Science, William & Mary. (215+ downloads) <https://doi.org/10.25773/1w8b-jy21>
- 2020 **Davis, E.H.**, "A Reassessment of the Late Quaternary Surficial Geology of the Lower Delmarva Peninsula, VA", Masters Thesis. University of Delaware, Delaware. <https://udspace.udel.edu/handle/19716/27964>
- 2017 **Davis, E.H.**, Garrison, S., "Remedial Investigation Report/Remedial Action Report for Exxon Mobil Service Station #32229". Regulatory Compliance Report submitted to the NJ DEP, New Jersey.

### INVITED RESEARCH TALKS

- 2024 **Davis, E.H.**, Hein, C.J., Cohn, N. White, A., Zinnert, J.C., "The role of internal coastal foredune structure in mediating storm-induced erosion", *Abstract ID# 1523088, AGU Fall Meeting*, Washington D.C., USA
- 2024 **Davis, E.H.**, Smith, S. Coastal dunes and their role in coastal resiliency. *P.E.O. Virginia State Conference*. Roanoke, VA, USA
- 2022 **Davis, E.H.**, Molino, G.G. Sea-level rise impacts on rural and developed coasts. *Virginia Engineers Conference*. Newport News, VA, USA

### CONFERENCE ABSTRACTS & PRESENTATIONS

- 2025 Zeman, J.L.\*, **Davis, E.H.**, Cohn, N., Zinnert, J.C., Hein, C.J. "Assessing the impact of beach nourishment on the morphology and sedimentology of coastal foredunes" *Geological Society of America (GSA) Southeast Section Meeting*, Harrisonburg, VA, USA
- 2025 **Davis, E.H.**, Hein, C.J., Cohn, N., Zinnert, J.C., Hein, E.A. "Eco-morphodynamic dune response to beach nourishment along the northern Outer Banks coast, North Carolina, USA", *Coastal Dynamics 2025*, Aviero, Portugal

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- 2023 **Davis, E.H.**, Hein, C.J., Cohn, N., White, A.E., Zinnert, J.C. "Ecomorphostratigraphic differences between natural, managed, and constructed foredunes and implications for dune response to storm impacts", *Abstract ID # 1324317, American Geophysical Union Fall Meeting 2023*, San Francisco, CA, USA
- 2023 Zinnert, J.C., White, A.E., Cohn, N., **Davis, E.H.**, Hein, C.J. "Quantifying the effect of management on biotic and abiotic properties of coastal foredunes above and below ground", *American Shore & Beach Preservation Association National Coastal Conference*, Providence, RI, USA
- 2023 **Davis, E.H.**, Hein, C.J., Cohn, N., White, A.E., Zinnert, J.C. "The role of internal dune structure in moderating dune response to storm impacts", *UNESCO International Geoscience Programme (IGCP) 725: Forecasting Coastal Change, Annual Meeting*, Florianopolis, Brazil
- 2023 White, A., Cohn, N., **Davis, E.H.**, Hein, C.J., Zinnert, J.C. "Variability & Elevation Drive Changes in Plant Community & Belowground Biomass in Coastal Dunes of the Outer Banks", *Abstract ID# 7364, Associated of Southeastern Biologists Annual Meeting*, Winston-Salem, NC, USA
- 2023 Heminway, S.S.\*, **Davis, E.H.**, Cohn, N., Hein, C.J. "Modeled influence of variable storm intensity and sea-level rise on barrier island foredune stability" *Abstract ID# 385846, Geological Society of America (GSA) NE-SE Joint Section Meeting*, Reston, VA, USA
- 2022 **Davis, E.H.**, Cortes, I., Sanks, K., Van Blunk, A., & Bastianon, E. "Exploring the interaction of salt marsh and mangrove vegetation on river delta evolution" *Community Surface Dynamics Modeling System Annual Meeting*, Boulder, CO, USA
- 2021 **Davis, E.H.**, Hein, C.J., Cohn, N., White, D., Zinnert, J.C., Hein, E.A. "Morphostratigraphic Differences Between Natural, Managed, and Constructed Coastal Foredunes" *Abstract ID #891481, American Geophysical Union Fall Meeting*, New Orleans, LA, USA
- 2021 **Davis, E.H.**, Hein, C.J., Cohn, N., White, D., Zinnert, J.C., Hein, E.A. "Coupled ecologic and sedimentologic controls on coastal foredune resilience to storm impacts" *Abstract ID #9482, Coastal and Estuarine Research Federation (CERF)*, Virtual Format
- 2021 Cohn, N., White, D., **Davis, E.H.**, Goldstein, E., Zinnert, J.C., Hein, C.J. "Alongshore variable coastal foredune responses: de-coupling morphologic, ecological, and anthropogenic controls", *CERF*, Virtual Format
- 2021 White, D., Ramos, K., Cohn, N., **Davis, E.H.**, Goeke, M.E., Hein, C.J., Zinnert, J.C. "Patterns and characteristics of belowground biomass distribution across natural and managed coastal foredunes" *Abstract ID #9387, CERF*, Virtual Format
- 2021 White, D., Ramos, K., Cohn, N., **Davis, E.H.**, Goeke, M.E., Hein, C.J., Zinnert, J.C. "Belowground differences in the biotic structure of natural and unmanaged coastal foredunes" *Abstract ID #93950, Ecological Society of America*, Virtual Format

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- 2020 **Davis, E.H.**, O'Neal, M.A., Lowery, D.L. "A new stratigraphic interpretation of the Delmarva Surface Sands, Virginia USA" *Abstract ID# 344850, GSA NE-SE Joint Section Meeting*, Reston, VA, USA
- 2020 **Davis, E.H.**, O'Neal, M.A. "Reassessing the depositional history of the lower Delmarva Peninsula, VA using cultural artifacts" *University of Delaware Graduate Student Forum for Research and Creative Work*, Newark, DE, USA (cancelled due to COVID-19 pandemic)

\*Denotes undergraduate mentee.

### FIELD EXPERIENCE

- 2024 **Direct-push drilling using a Geoprobe 6620DT** drill rig to collect sediment cores and optically-stimulated luminescence (OSL) samples on Virginia's Eastern Shore, USA.
- 2022–2024 **Sedimentologic & geospatial data collection** (15 transects sampled ~20 times over a 1-year period) using a sediment grab sampler and real-time kinematics- (RTK) GPS in the Outer Banks, North Carolina.
- 2022 **Coastal Environments – Beaches & Barrier Islands Field Course**, Virginia, North Carolina, South Carolina, & Georgia, USA.
- 2020 **Sedimentologic, stratigraphic, geophysical, & geospatial data collection** (8 transects) using a vibracoring system, MALA ground-penetrating radar, and RTK-GPS in the Outer Banks, North Carolina.
- 2020 **Vibracore collection aboard the R/V Peregrination** as part of the Virginia Port Authority Shallow Water Dredging Project, VIMS Shoreline Studies Program
- 2019 **Geology of the Southwest Field Course**, Texas & New Mexico, USA
- 2016–2019 **Groundwater sampling** (low-flow & standard purge) via Monsoon, "whale", Grunfos, & bladder pumps in accordance with NJ Department of Environmental Protection (DEP) Field Sampling Procedures and PA & NY technical guidelines
- 2016–2019 **Drilling health & safety and technical compliance oversight** of subcontractors via direct push, dual tube, hollow stem auger, and air & mud rotary drilling methods
- 2016–2018 **Excavation & underground storage tank removal** health & safety and technical compliance oversight of contractors
- 2016–2018 **In-situ remediation technical compliance oversight** via injection wells & direct-push borings
- 2016–2019 **Soil sampling** from borings and sediment piles in accordance with NJ DEP Field Sampling Procedures
- 2015–2019 **Soil classification** of soil borings in accordance with USDA, Unified Soil Classification System, & Modified Burmister classification systems
- 2015–2018 **Stream & surface water sampling** using Hach Stream Survey Test kits in accordance with NJ DEP Field Sampling Procedures

### TECHNICAL SKILLS

**Programming Languages:** R, MATLAB, Python  
**Operating Systems:** Linux, Windows, Apple



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**Numerical Models:** AeoliS, PyDeltaRCM, XBeach

**Version Control:** GitHub

**Software Packages:** GIS (ESRI ArcGIS Desktop Certified), Spyder, PyCharm, Adobe Illustrator, Inkscape, JMP, RadExplorer, LaTeX, CloudCompare, MS Office, LibreOffice

**Field & Lab Methods:** Emblid RTK-GPS, CAMSIZER X2, GSSI & MALA ground-penetrating radar (GPR), Trimble Geo 7X handheld GNSS System, Total Station Survey, terrestrial LiDAR laser scanner, wetland delineation (via 987 USACE Wetlands Delineation Manual & Regional Supplements), watershed assessment (US EPA Procedure # 841-B-99-002), environmental impact assessment

### WORKSHOPS & TRAINING

#### *Technical*

- 2023 **AeoliS Short Course**, Coastal Sediments '23, New Orleans, LA
- 2023 **Headland Sediment Bypassing: Integrating field and observational data and numerical modelling to forecast downdrift beach growth and erosion**, Universidade Federal de Santa Catarina, Florianopolis, Brazil
- 2022 **Earth Surface Processes Institute Spring School** (Selected Participant), Community Surface Dynamics Modeling System, University of Colorado Boulder
- 2021 **XBeach Course – Morphodynamic Modelling During Storm Conditions**, Deltares Academy

#### *Science Policy & Communication*

- 2022 **Geoscience Congressional Visits Day** (Selected Participant), AGU, Washington D.C.
- 2022 **Story Collider**, hosted by Virginia Sea Grant, VIMS, & Chesapeake Bay National Estuarine Research Reserve (NOAA Office for Coastal Management)
- 2022 **Science Communication to Get Policymakers' Attention**, Research-to-Policy Collaboration, AAAS Annual Meeting
- 2022 **Road to Richmond**, Office of Government Relations, William & Mary
- 2021 **Skills for Science: Science Storytelling**, AGU Fall Meeting, New Orleans
- 2021 **Catalyzing Advocacy in Science & Engineering (CASE) Workshop**, American Association for the Advancement of Science (AAAS)
- 2021 **Coastlines and People Workshop** (Recurrent Flooding & Research Priorities), National Science Foundation (NSF), Old Dominion University
- 2021 **Science Policy Bootcamp**, University of Virginia

#### *Diversity, Equity, & Inclusion*

- 2022 **Fostering Diversity, Equity, and Inclusion into Interdisciplinary Marine Research**, Interdisciplinary Marine Early Career Network
- 2022 **Inclusive Leadership Workshop**, PwC, William & Mary
- 2020 **Bystander Intervention Workshop**, AdvanceGEO Partnership, University of Delaware

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### PUBLIC OUTREACH & STAKEHOLDER ENGAGEMENT

- 2024 **Stakeholder Workshop Co-Host**, “Dynamic Dunes: Scientific Advances for Improved Management”, US ACE Field Research Facility, Duck, NC
- 2023 **Presenter**, *A Scientist Walks Into a Bar* science outreach series, Williamsburg, VA
- 2023 **Volunteer**, James River Watch, James River Association, Richmond, VA
- 2022–2023 **Scientist Volunteer**, non-profit *Letters to a Pre-Scientist* program that connects scientists to under-served middle school students to foster STEM engagement
- 2022 **Discovery Lab Volunteer**, Science Museum of Virginia
- 2022 **Virginia Scientist & Educators Alliance Lesson Plan Expo**, present original K-12 classroom-tested lesson plan based on dissertation research, VIMS, VA
- 2021 **Stakeholder Workshop Co-Facilitator**, “Cultivating a Better Understanding of Local Coastal Dune Dynamics & Management Needs”, US ACE Field Research Facility, Duck, NC
- 2021 **Invited Speaker**, “Increasing coastal resiliency with dunes” talk given to undergraduate course Quaternary Climate Change, Weber University, UT
- 2021 **Scientist Volunteer**, non-profit *Virginia Scientist-Community Interface* group that aligns a coalition of scientists with non-profits to affect policy
- 2020–pres. **Visiting Scientist**, non-profit *Skype a Scientist* program that connects scientists to K-12 classrooms across the United States (10+ sessions)
- 2018, 2019 **Volunteer**, Coast Day, University of Delaware, Lewes, DE

### TEACHING EXPERIENCE

- 2018–2020 **Graduate Teaching Assistant**, University of Delaware  
GEOL304: *Sedimentology and Stratigraphy*; enroll: 19  
GEOL115: *Geologic Hazards*; enroll: 25  
GEOL110: *Earth’s Evolving Systems*; enroll: 75
- 2013–2016 **Academic Tutor**, West Virginia University Athletic Department  
Tutor English, Geography, Geology, GIS Technology, & Spanish. Aid in time management and organizational skills.

### STUDENT ADVISING & MENTORING

- 2023–2024 **Julia Zeaman**, *Undergraduate Senior Thesis, William & Mary*.  
Assessing the Impact of Beach Nourishment on the Morphology and Sedimentology of Coastal Foredunes in the Outer Banks, North Carolina.
- 2022 **Ethan Stewart**, *Scholars Undergraduate Research Experience, William & Mary*.  
Collect and analyze baseline data to quantify spatial & temporal variability of beach/dune grain size & morphology prior to beach nourishment.
- 2021–2023 **Selwyn Heminway**, *Undergraduate Senior Honors Thesis, William & Mary*.  
Modeling effects of variable storm intensity and rates of sea-level rise on dune morphology in Outer Banks, North Carolina, USA.
- 2020–2021 **Melanie Strik**, *Undergraduate Senior Thesis, William & Mary*.



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Investigating sedimentologic differences between natural dunes and constructed dunes utilizing GPR and vibracore data, Outer Banks, North Carolina.

### PROFESSIONAL SERVICE

2024	<b>Journal Reviewer</b> , <i>Estuaries &amp; Coasts</i> x 1; <i>Geomorphology</i> x 1
2023	<b>Co-Convener</b> , Coastal Geomorphology Session, AGU Fall Meeting, San Francisco, CA
2023	<b>VIMS Representative</b> , United Nations Water Conference, New York City, NY
2023–2026	<b>Education Policy Sub-committee Representative</b> , Academic Council, VIMS
2023	<b>Reviewer</b> , VIMS Graduate Student Association Research Grants
2022	<b>Course Development Working Group</b> , “Responses to Climate Change: A Comparison of Opportunities for Potential Solutions in the Netherlands and the Coastal United States”, William & Mary
2021–pres.	<b>Founding Co-Director</b> , Science Policy Initiative at VIMS/W&M
2021–2023	<b>Committee Member</b> , Professional Development Committee, VIMS
2021	<b>PostDoc Search Committee</b> , Coastal Geology Lab, VIMS
2020–2022	<b>VIMS Graduate Student Representative</b> , William & Mary Student Conduct Council
2019–2020	<b>Graduate Student Government Senator</b> , University of Delaware (UD) Department of Geological Sciences
2019	<b>Assistant Coordinator</b> , UD GEO Job Fair
2018–2020	<b>Co-Chair</b> , Sustainability Committee, UD Graduate Student Government
2015–2016	<b>President</b> , WVU Gamma Theta Upsilon Chapter

### PROFESSIONAL ASSOCIATIONS & MEMBERSHIPS

2022–pres.	Women in Coastal Geoscience & Engineering (WCGE)
2022–pres.	Community Surface Dynamics Modelling System (CSDMS)
2021–2024	National Science Policy Network (NSPN)
2019–pres.	Society for Women in Marine Science (SWMS)
2019–pres.	American Geophysical Union (AGU)
2018–2022	Geological Society of America (GSA)
2016–pres.	Phi Beta Kappa, Alpha Chapter of West Virginia
2013–2016	Gamma Theta Upsilon (National Honorary Geography Society)