Andrew S. Wozniak, Ph.D.
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School of Marine Science and Policy
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EDUCATION

University of Virginia	Biology	B.A. 2000
University of Rhode Island	Biological Oceanography Dr. Charles T. Roman, advisor	M.S. 2004
College of William and Mary	Marine Science/Chemical Oceanography Drs. James E. Bauer and Rebecca M. Dickhut, Co-advisors.	Ph.D. 2010

APPOINTMENTS

2023-present *Associate Professor*, School of Marine Science and Policy, University of Delaware
2017-2023 *Assistant Professor*, School of Marine Science and Policy, University of Delaware
2013-2017 *Research Assistant Professor*, Department of Chemistry and Biochemistry, Old Dominion University
2011-2013 *Visiting Assistant Research Scientist*, Physical Sciences Department, Virginia Institute of Marine Science, College of William and Mary
2009-2012 *Post-doctoral Researcher*, Department of Chemistry and Biochemistry, Old Dominion University, Dr. Patrick G. Hatcher, advisor.

AFFILIATIONS

Affiliated Faculty Member, University of Delaware Graduate Program in Water, Science, and Policy
Affiliated Faculty Member, University of Delaware, DENIN

SELECTED RECENT PEER-REVIEWED PUBLICATIONS

1. Fettrow, S.[%], Jeppi, V.[%], **Wozniak, A.S.**, Vargas, R., Michael, H., Seyfferth, A. L., 2023. Physiochemical controls on the horizontal exchange of blue carbon across the salt marsh-tidal channel interface, *Journal of Geophysical Research: Biogeosciences*, *128*(6), p.e2023JG007404.
2. Czarnecki*, J. I., D. F. Levia, J. R. Scudlark, T. Ouyang*, **A. S. Wozniak**. 2023. Impacts of changes in the relative abundance of anthropogenic emission sources on rainwater dissolved organic and total reactive nitrogen composition. *JGR-Biogeosciences*, 128(2), e2022JG007056, https://doi.org/10.1029/2022JG007056.
3. Chin, Y.P., McKnight, D.M., D'Andrilli, J., Brooks, N., Cawley, K., Guerard, J., Perdue, E.M., Stedmon, C.A., Tratnyek, P.G., Westerhoff, P., **Wozniak, A.S.**, Bloom, P. R., Foreman, C., Gabor, R., Hamdi, J., Hanson, B., Hozalski, R. M., Kellerman, A., McKay, G., Silverman, V., Spencer, R. G. M., Ward, C., Xin, D., Rosario-Ortiz, F., Remucal, C. K., and Reckhow, D., 2023. Identification of next-generation International Humic Substances Society reference materials for advancing the understanding of the role of natural organic matter in the Anthropocene. *Aquatic Sciences*, *85*(1), p.32.
4. Burdette, T.C.[%], R. L. Bramblett[%], A. M. Deegan[%], N. R. Coffey*, **A. S. Wozniak**, A. A. Frossard. 2022. Organic signatures of surfactants and organic molecules in surface microlayer and subsurface waters of Delaware Bay. *ACS Earth and Space Chemistry,* 6(12), pp. 2929-2943.
5. Stahl, M., J. Wassik**, J. Gehring**, C. Horan**, **A. S. Wozniak**. 2021. Connecting the age and fraction of riverine labile organic carbon to watershed geology and land use. *JGR-Biogeosciences*, 126(9), https://doi.org/10.1029/2021JG006494.
6. Goranov, A.I.[%], **Wozniak, A.S.,** Bostick, K.W.[%], Zimmerman, A.R., Mitra S., Hatcher, P.G. 2020. Photochemistry after fire: A study of dissolved pyrogenic carbon from chars produced over a thermal gradient. *Geochimica et Cosmochimica Acta,* 290, 271-292, https://doi.org/10.1016/j.gca.2020.08.030.

7. **Wozniak, A. S.**, A. I. Goranov[%], S. Mitra, A. R. Zimmerman, K. W. Bostick[%], D. R. Schlesinger[%], S. C. B. Myneni, P. G. Hatcher. 2020. Molecular heterogeneity in pyrogenic dissolved organic matter from a thermal series of oak and grass chars. *Organic Geochemistry* 104065, https://doi.org/10.1016/j.orggeochem.2020.104065.
8. Estes, E. R., D. Berti, N. R. Coffey**, M. F. Hochella Jr., **A. S. Wozniak**, and G. W. Luther III. 2019. Abiotic synthesis of graphite in hydrothermal vents. *Nature Communications* 10(1), pp. 1-6. https://doi.org/10.1038/s41467-019-13216-z.
9. **Wozniak, A.S.**, Prem, P. M.**, Obeid, W., Quigg, A., Xu, C., Zhang, S., Santschi, P. H., Schwehr, K. A., Hatcher, P. G. 2019. Rapid degradation of oil in mesocosm simulations of marine oil snow events. *Environmental Science and Technology* 53, (7), 3441-3450 https://doi.org/10.1021/acs.est.8b06532.
10. Bostick, K. [%], A.R. Zimmerman, P. G. Hatcher, S. Mitra, **A. S. Wozniak**. 2018. Production and composition of pyrogenic dissolved organic matter. *Frontiers in Earth Science – Biogeosciences,* 6, 43. https://doi.org/10.3389/feart.2018.00043
11. **Wozniak, A. S.**, R. U. Shelley, S. M. McElhenie[%], A. S. Willoughby[%], W. M. Landing, P. G. Hatcher. 2015. Insights into potential Fe-binding aerosol water soluble organic ligands from the 2011 US GEOTRACES cruise. *Marine Chemistry*, 173, 162-172, doi:10.1016/j.marchem.2014.11.002.

CURRENT FUNDING *(~$2.5M to UD)*

1. RII Track-1: Water Security in Delaware's Changing Coastal Environment, National Science Foundation EPSCoR Research Infrastructure Improvement and the State of Delaware (OIA1757353, 10/1/18- 9/31/23; $260,457 to Wozniak), Lead PI K Messer, PI and Research Lead, H Michael, PIs V Kalavacharla, D Sparks, M D'Souza. **Wozniak** serves as Co-Lead (with A. Andres, D. Jaisi, W.-J. Cai) for Threat 3, Estuarine Nutrient Sources and Loading, Eutrophication, and Acidification.
2. NSF AGS (Chemical Oceanography): Collaborative Research: Impacts of surface ocean surfactant sources and transformations on their chemical composition and air-sea relevant properties, A. Frossard (U. Georgia) and **A. S. Wozniak** (~$452,301 to UD), October 1, 2022 to September 30, 2025.
3. NERRS Science Collaborative: Do prescribed burns of *Phragmites australis* during salt marsh restoration increase denitrification and carbon sequestration ecosystem services?, **A. S. Wozniak** (UD), K. St. Laurent (DNREC), $598,966, October 1, 2021 to September 30, 2024.
4. NSF AGS (Chemical Oceanography): Collaborative Research: Hydrothermal vent systems mediate the formation and fate of refractory aromatic carbon in the deep ocean, **A. S. Wozniak**, G. Luther, S. Shah Walter (UD), S. Wagner, $1,437, 470 ($1,035,261 to UD), September 1, 2022 to August 31, 2025.
5. Reducing Uncertainty in Soluble aerosol Trace Element Deposition (RUSTED), R. S. Shelley et al. SCOR Working Group Proposal ($45,000 total; A.S. Wozniak listed as Associate Member, No funds requested for UD).

COURSES TAUGHT

MAST 382 Introduction to Ocean Studies (3cr), MAST453/653 Marine Organic Geochemistry (3 cr), MAST 447/647 Current Methods in Chemical Oceanography, MAST 646 Chemical Oceanography, MAST 407 Research Experience in Marine Science, MAST 468 Undergraduate Research