

CURRICULUM VITAE

Calendar Year 2024

ALEXANDRA STIKAS FRIES

Integration and Application Network

University of Maryland Center for Environmental Science

Certification

I have reviewed this Curriculum Vitae and here certify
that it is a current and accurate statement of my
professional record for this calendar year.

Signed: _____ Date: _____

CURRICULUM VITAE

Alexandra Stikas Fries

Integration and Application Network

University of Maryland Center for Environmental Science
429 4th Street, Annapolis, MD 21401
Phone: 703-371-4165
Email: afries@umces.edu

I. Education

- 2010 Master of Environmental Management, Duke University, Nicholas School of the Environment. Ecosystem Science and Conservation.
- 2008 Bachelor of Science, University of North Carolina Wilmington. Marine Biology and Environmental Science.

II. Professional Background

- 2015–2018 Senior Science Communicator, University of Maryland Center for Environmental Science. Integration and Application Network.
- 2018–2019 Project Manager, University of Maryland Center for Environmental Science. Integration and Application Network.
- 2019–Current Program Manager, University of Maryland Center for Environmental Science. Integration and Application Network.

Awards and Special Recognition

- 2024 President’s Award for Outstanding Research Support

III. Research

A. Areas of professional expertise

Tropical and marine ecology	Climate change impacts
Conservation planning	Water quality and sampling design
Ecosystem assessments	Science communication
Marine ecosystem-based management	Data analysis and synthesis
Fisheries management	Project management

B. Peer-Reviewed Publications

1. Papers in Refereed Journals

Towle EK, Donovan EC, Kelsey H, Allen ME, Barkley H, Blondeau J, Brainard RE, Carew A, Couch CS, Dillard MK, Eakin CM, Edwards K, Edwards PET, Enochs IC, Fleming CS, Fries AS, Geiger EF, Grove LJ, Groves SH, Gorstein M, Heenan A, Johnson MW, Kimball J, Koss JL, Kindinger T, Levine A, Manzello DP, Miller N, Oliver T, Samson JC, Swanson D, Vargas-Ángel B, Viehman TS and Williams ID. 2022. A National Status Report on United States Coral Reefs Based on 2012–2018 Data From National

Oceanic and Atmospheric Administration's National Coral Reef Monitoring Program. *Frontiers in Marine Science*, 8:812216. doi: 10.3389/fmars.2021.812216, 19p.

Laumann KM, Nastase EA, Vargas-Nguyen V, Kelsey RH, Carew A, Donovan EC, Fries AS, Spitzer SE, Dennison WC. 2019. Moving beyond the ecosystem in ecosystem health report cards, *Environmental Practice*, 21:4, 216-229.

Fries AS, Coimbra JP, Nemazie DA, Summers RM, Azevedo JPS, Filoso S, Newton M, Gelli G, Oliveira RCND, Pessoa MAR, Dennison WC. 2019. Guanabara Bay ecosystem health report card: Science, management, and governance implications. *Regional Studies in Marine Science* 25, 17p.

C. Contracts and Grants

1. Awarded

Integrating New Indicators and Increasing Stakeholder Engagement in the Chesapeake Bay Report Card. National Fish and Wildlife Foundation. 2019-2024. \$274,954. (Co-Principal Investigator, 17% time).

Coastal Georgia Ecosystem Report Card Revisions. Georgia Department of Natural Resources. 2020-2021. \$29,585. (Co-Principal Investigator, 7% time).

Upper Rio Grande Resilient Basin Report Card. World Wildlife Fund. 2020-2023. \$69,000. (Co-Principal Investigator, 35% time).

Advancing Southeast Michigan; Co-development of Socio-environmental report cards for the Clinton, Detroit, Huron, River Raisin, and Rouge. ERB Family Foundation. 2021-2024. \$513,053. (Co-Principal Investigator, 42% time).

Production of the 2019-2020 Maryland Coastal Bays Report Card. Maryland Coastal Bays Program. 2021-2021. \$9,012. (Co-Principal Investigator, 2.5% time).

State of the Bays Data Analysis and Visualization. Delaware Center for Inland Bays. 2021-2022. \$22,477. (Co-Principal Investigator, 4% time).

Production of the 2021 Maryland Coastal Bays Report Card. Maryland Coastal Bays Program. 2022-2022. \$9,071. (Co-Principal Investigator, 4% time).

Maryland Coastal Bays State of the Bays Report 2022. Maryland Coastal Bays Program. 2022-2022. \$31,824. (Co-Principal Investigator, 6% time).

Capacity Expansion and Integration of Citizen-based Monitoring and Nontraditional Monitoring Partners into the Chesapeake Bay Program Partnership. 2021-2027. \$607,428. (Co-Principal Investigator, 3% time).

Production of the 2022 Maryland Coastal Bays Report Card. Maryland Coastal Bays Program. 2023-2023. \$10,549. (Co-Principal Investigator, 4% time).

Maryland Coastal Bays Program Comprehensive Conservation and Management Plan. Maryland Coastal Bays Program. 2023-2025. \$55,514. (Co-Principal Investigator, 2% time).

Basin Report Card development training Luangwa River Basin Year 1 Activities. World Wildlife Fund. 2024. \$33,159. (Principal Investigator, 5% time).

Indus River Report Card Facilitation and Consulting. World Wildlife Fund. 2024. \$17,505. (Principal Investigator, 5% time).

Production of the 2023 Maryland Coastal Bays Report Card. Maryland Coastal Bays Program. 2024. \$11,634. (Principal Investigator, 3% time).

IV. Teaching and Training

A. University System of Maryland Courses Taught

- MEES708T Science Visualization, UMCES, Spring 2024

B. Staff Supervised

- James Currie 2017–2019
- Sky Swanson 2018–2021
- Dylan Taillie 2021–2022
- João Coimbra 2022–2022
- Annie Carew 2021–2023
- Joe Edgerton 2020–2021, 2023–Current
- Nathan Miller 2021–2024

C. Internships Supervised

- James Currie 2017–2018
- Claire Sbardella 2017–2018
- Yesenia Valverde 2018–2019
- Kate Peterson 2018–2019
- Max Hermanson 2019–2020
- Annie Carew 2019–2020
- Joe Edgerton 2020–2021
- Crystal Nichols 2020–2021
- Logan Bilbrough 2021–2022
- Anikka Fife 2023–2024

V. Outreach and Service

A. UMCES and Laboratory

- UMCES Faculty Senate 2020–2023
 - Faculty Research Assistant Compensation guidance 2022
 - UMCES Ombuds Committee 2022–2024
 - UMCES Faculty Research Assistant Council policy development 2023
 - UMCES Appointment Promotion and Tenure Policy Review Committee 2023–Current
 - UMCES Faculty Research Assistant Council Vice Chair 2024–Current
 - IAN DEIJ Committee 2024–Current
- B. University System of Maryland
- UMCES Presidential Search Committee 2023–2024
- C. Federal/State/Local Government
- Facilitation of State of Maryland and State of Rio Memorandum of Understanding 2024–Current
- D. Other Professional Service
- Baltimore Harbor Report Card Science and Technical Advisory Committee 2024–Current

VI. Selected Reports and Science Communication

Integration and Application Network (2024) IAN Strategic Plan 2025-2030 (REPORT) IAN Press, Cambridge, MD, 24pp

2024 UMCES Institutional Assessment, UMCES, Cambridge, MD, 12pp

Integration and Application Network (2024) 2023 Maryland Coastal Bays Report Card (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Methodology of socio-environmental report cards for the Clinton, Detroit, Huron, River Raisin, and Rouge Rivers (REPORT) IAN Press, Cambridge, MD, 42pp

Integration and Application Network (2024) Luangwa Basin Health Report Card Workshop Newsletter (NEWSLETTER) IAN Press, Cambridge, MD, 4pp

Integration and Application Network (2024) Patapsco River 2023 Report Card (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Boleta de calificaciones Sudeste de Michigan (REPORT CARD) IAN Press, Cambridge, MD, 8pp

Integration and Application Network (2024) Boleta de calificaciones de la cuenca del Rio Clinton (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Boleta de calificaciones de la cuenca del Rio Detroit (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Boleta de calificaciones de la cuenca del Rio Huron (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Boleta de calificaciones de la cuenca del Rio Raisin (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Boleta de calificaciones de la cuenca del Rio Rouge (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Clinton River Watershed Report Card (Arabic) (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Detroit River Watershed Report Card (Arabic) (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Huron River Watershed Report Card (Arabic) (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) River Raisin Watershed Report Card (Arabic) (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Rouge River Watershed Report Card (Arabic) (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Southeast Michigan Report Card (Arabic) (REPORT CARD) IAN Press, Cambridge, MD, 8pp

Integration and Application Network (2024) Clinton River Watershed Report Card (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Detroit River Watershed Report Card (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Huron River Watershed Report Card (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) River Raisin Watershed Report Card (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Rouge River Watershed Report Card (REPORT CARD) IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2024) Southeast Michigan Report Card (REPORT CARD) IAN Press, Cambridge, MD, 8pp

Integration and Application Network (2023) 2022 Maryland Coastal Bays Report Card. IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2023) 2022 Integration and Application Network Report Card. IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2023) Non-Tidal Patapsco River Report Card. IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2023) 2022 Chesapeake Bay and Watershed Report Card. IAN Press, Cambridge, MD, 8pp

Integration and Application Network (2022) A report card for the Upper Rio Grande basin. IAN Press, Cambridge, MD, 12pp

Integration and Application Network (2022) Upper Rio Grande Report Card Methodology. IAN Press, Cambridge, MD, 36pp

Integration and Application Network (2022) 2021 Maryland Coastal Bays Report Card. IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2022) Building Resilience in the Maryland Coastal Bays. IAN Press, Cambridge, MD, 28pp

Integration and Application Network (2022) 2021 Integration and Application Network Report Card. IAN Press, Cambridge, MD, 6pp

Canny, A., Shahbol, N., Thieme, M.L., Fries, A., Kelsey, R.H., Costanzo, S.D. 2022. Selecting Indicators for Basin Health Report Cards. WWF-US and IAN Press. Washington, DC and Cambridge, MD, 78pp

Integration and Application Network (2022) Southeast Michigan Report Cards: First Virtual Stakeholder Workshop Summary. IAN Press, Cambridge, MD, 4pp

Integration and Application Network (2021) 2019-2020 Maryland Coastal Bays Report Card. IAN Press, Cambridge, MD, 8pp

Integration and Application Network (2021) 2020 Integration and Application Network Report Card (REPORT CARD). IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2021) Chesapeake Bay & Watershed Report Card 2020. IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2021) Local economy indicators coming next year. IAN Press, Cambridge, MD, 2pp

Integration and Application Network (2021) Coastal Georgia Ecosystem Report Card 2020. IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2021) The Development Process and Methods for the Coastal Georgia Report Card. IAN Press, Cambridge, MD, 24pp

Integration and Application Network (2021) Creating a resilient river report card and scenario model for the Upper Rio Grande. IAN Press, Cambridge, MD, 4pp

Integration and Application Network (2021) Maryland's Water Quality Trading Program. IAN Press, Cambridge, MD, 2pp

Integration and Application Network (2020) 2019 Integration and Application Network Report Card. IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2020) Western Lake Erie 1st Report Card. IAN Press, Cambridge, MD, 8pp

Integration and Application Network (2020) 2019 Chesapeake Bay & Watershed Report Card. IAN Press, Cambridge, MD, 6pp

Integration and Application Network (2020) 2020 Verde River Watershed Report Card. IAN Press, Cambridge, MD, 6pp

VII. Selected Presentations/Conference Proceedings

Visualizing and communicating monitoring data for positive change. 2024 Maryland Water Monitoring Council Conference. Linthicum Heights, MD. November 2024. [Alexandra S. Fries](#)

Building Relationships and Engaging Stakeholders. 2024 Chesapeake Watershed Forum. Shepherdstown, WV, October 2024. [Alexandra S. Fries](#), Ann Foo, Annie Carew

Communicating Science Effectively Workshop. 2024 Chesapeake Watershed Forum. Shepherdstown, WV, October 2024. [Alexandra S. Fries](#), Ann Foo, Annie Carew

Socio-Environmental Report Cards for Sustainability: Engaging Communities to Advance Decision-making and Achieve Resilience. 2024 Sustainability Research and Innovation Congress. Helsinki, Finland June 10, 2024. [Alexandra S. Fries](#), Heath Kelsey

Best Practices in Science Communication. 2024 Sustainability Research and Innovation Congress. Helsinki, Finland June 11, 2024. [Alexandra Fries](#), Heath Kelsey

Tour de Coasts – Unveiling Global Sustainability Insights: Interactive Roundtable. Sustainability Research and Innovation Congress. Helsinki, Finland June 14, 2024. Heath Kelsey, Xiaoyu Fang, Dwayne Porter, Katya Altman, [Alexandra S. Fries](#)

Data Interpretation for Effective Science Communication. 2023 Chesapeake Watershed Forum. Shepherdstown, WV, November 2023. [Alexandra S. Fries](#)

Get the Grade! A socio-environmental report card game. 2023 Sustainability Research and Innovation Congress. Panama City, Panama, June 2023. [Alexandra S. Fries](#), Xiaoyu Fang

Synthesizing Monitoring Data to Inform Water Management for Ecosystems and Communities. 2023 National Water Quality Monitoring Conference. Virginia Beach, VA, April 2023. [Alexandra S. Fries](#)