

# Erik S. Yando, PhD

Old Dominion University | eyando@odu.edu  
Physical Sciences Building 3100C | erikyando.weebly.com  
4402 Elkhorn Ave. | O: +1 757-683-3595  
Norfolk, Virginia 23508 | M: +1 757-818-8941

## EDUCATION

- 2018 **PhD - Environmental and Evolutionary Biology**  
University of Louisiana at Lafayette (Supervisor: Mark Hester)
- 2014 **MS - Biology**  
University of Louisiana at Lafayette (Supervisor: Mark Hester)
- 2010 **BA - Biological Sciences & Botany (Double Major)**  
Connecticut College (Supervisors: Anne Bernhard & T. Page Owen)

## EMPLOYMENT

- 2020-Present **Assistant Professor**  
Department of Biological Sciences, Old Dominion University, *Norfolk, Virginia*
- 2018-20 **Postdoctoral Research Fellow** - Natural Capital Singapore & The Mangrove Lab  
Department of Geography, National University of Singapore, *Singapore*
- 2014-17 **University Doctoral Fellow** - Coastal Plant Ecology Lab  
Department of Biology, University of Louisiana at Lafayette, *Lafayette, Louisiana*
- 2015-17 **Contracted Researcher (Summers)**  
U.S. Geological Survey, Wetland & Aquatic Research Center, *Lafayette, Louisiana*
- 2012-14 **Graduate Research Assistant** - Coastal Plant Ecology Lab  
Department of Biology, University of Louisiana at Lafayette, *Lafayette, Louisiana*
- 2012 **Research/Teaching Assistant** - Microbial Ecology Lab  
Department of Biology, Connecticut College, *New London, Connecticut*
- 2010-11 **Instructor**  
Newfound Harbor Marine Institute, *Big Pine Key, Florida*
- 2010-11 **Research Assistant (Summers)** - TIDE Project  
Connecticut College/Marine Biological Laboratory, *Byfield, Massachusetts*

## PUBLICATIONS ( $\Delta$ = undergraduate co-author)

16. Alemu I, JB, Yaakub, SM, **Yando, ES**, Lau, R, Lim, CC $\Delta$ , Puah, JY $\Delta$  & DA Friess. 2022. Geomorphic gradients in shallow seagrass carbon stocks. *Estuarine, Coastal, and Shelf Science*. 265: 107681
15. **Yando, ES**, Sloey, TM, Dahdouh-Guebas, F, Rogers, K, Cannicci, S, Abuchahla, GMO, Canty, SWJ, Jennerjahn, TC, Ogurcak, DE, Connolly, RM, Diele, K, Lee, SY, Rowntree, JK, Sharma, S, Adams, JB, Cavanaugh, KC, Cormier, N, Feller, IC, Fratini, S, Ouyang, X, Wee, AKS & DA Friess. 2021. Conceptualizing ecosystem degradation using mangrove forests as a model system. *Biological Conservation*. 263: 109335
14. Jones, SF, Stagg, CL, **Yando, ES**, James, WR, Buffington, K & MW Hester. 2021. Stress gradients interact with disturbance to reveal alternative states in salt marsh: multivariate resilience at the landscape scale. *Journal of Ecology*. 109 (9): 3211-3223
13. Lønborg, C, Müller, M, Butler, ECV, Jiang, S, Ooi, SK, Huang, TD, Wong PY, Mohamed Ali, SB, Cui, C, Wee, BS, **Yando, ES**, Friess, DA, Rosentreter, JA, Eyre, BD & P Martin. 2021. Are nutrient cycling pathways in tropical and temperate coastal waters really different? *Estuarine, Coastal, and Shelf Science*. 262: 107571

**PUBLICATIONS (continued)**

12. **Yando, ES**, Jones, SF & MW Hester. 2021. Limited mangrove propagule retention at a latitudinal range limit: spatiotemporal patterns at the patch-scale. *Estuaries and Coasts*. 44(3): 834-845
11. Friess, DA, Dahdouh-Guebas, F, Behara, S, Cannicci, S, Chua, SC, Duke, N, Feller, I, Jaafar, Z, Pulukkuttige, JL, Koedam, N, Krauss, K, Lee, SY, Mancera, JE, Ruwa, R, Vannini, M & **ES Yando**. 2021. Scientific contributions of the Mangrove Macrobenthos and Management (MMM) conference series, 2000-2019. *Estuarine, Coastal, and Shelf Science*. 248: 106742
10. Friess, DA, **Yando, ES**, Alemu, JB, Wong, LW, Soto, SD & N Bhatia. 2020. Chapter 3- Ecosystem services and disservices of saltmarshes and mangrove forests. *Oceanography and Marine Biology- An Annual Review*. 58: 107-142
9. Friess, DA, **Yando, ES**, Wong, LW & N Bhatia. 2020. Indicators for scientific value as an ecosystem service for coastal and marine habitats. *Ecological Indicators*. 113: 106225
8. Friess, DA, Krauss, KW, Taillardat, P, Adame, F, **Yando, ES**, Cameron, C, Sasmito, SD, & M Sillanpää. 2020. Mangrove blue carbon in the face of deforestation, climate change and restoration. *Annual Plant Reviews*. 3: 427-456
7. Friess, DA, **Yando, ES**, Abuchahla, GMO, Adams, JB, Cannicci, S, Canty, SWJ, Cavanaugh, KC, Connolly, RM, Cormier, N, Dahdouh-Guebas, F, Diele, K, Feller, IC, Fratini, S, Jennerjahn, TC, Lee, SY, Ogurcak, DE, Ouyang, X, Rogers, K, Rowntree, JK, Sharma, S, Sloey, TM & AKS Wee. 2020. Mangroves give cause for conservation optimism, for now. *Current Biology*. 30(4): R153-R154
6. Richards, D, Masoudi, M, Oh, RRY, **Yando, ES**, Zhang, J, Friess, DA, Grêt-Regamey, A, Tan, PY & PJ Edwards. 2019. Global variation in climate, human development, and population density has implications for urban ecosystem services. *Sustainability*. 11(22): 6200
5. **Yando, ES**, Osland, MJ, Jones, SF & MW Hester. 2019. Jump-starting coastal wetland restoration: A comparison of marsh and mangrove foundation species. *Restoration Ecology*. 27(5): 1145-1154
4. Jones, SF, **Yando, ES**, Stagg, CL, Hall, CT & MW Hester. 2019. Restoration affects sexual reproductive capacity in a salt marsh. *Estuaries and Coasts*. 42(4): 976-986
3. **Yando, ES**, Osland, MJ & MW Hester. 2018. Microspatial ecotone dynamics at a shifting range limit: plant-soil variation across salt marsh-mangrove interfaces. *Oecologia*. 187(1): 319-331
2. **Yando, ES**, Osland, MJ, Willis, JM, Day, RH, Krauss, KW & MW Hester. 2016. Salt marsh-mangrove ecotones: using structural gradients to investigate the effects of woody plant encroachment on plant-soil interactions and ecosystem carbon pools. *Journal of Ecology*. 104(4): 1020-1031  
\* Selected for *Journal of Ecology's Virtual Issue- Plants in a Changing World: Global Change and Plant Ecology, 2017*
1. Peng, X, **Yando, ES**, Hildebrand E, Dwyer, C, Kearney, A, Waciega, A, Valiela, I & AE Bernhard. 2013. Differential responses of ammonia-oxidizing archaea and bacteria to long-term fertilization in a New England salt marsh. *Frontiers in Microbiology*. 3(445): 1-11

**PUBLICATIONS (Submitted or In-Preparation)**

- Manimaran, S<sup>A</sup>, **Yando, ES** & N Bhatia. *Submitted*. Factors influencing the perception of cultural ecosystem services among park users in Singapore. Target Journal: *Ambio*
- Friess, DA, Gatt, Y, Fung, TK, Alemu, J, Bhatia, B, Case, R, Chua, SC, Huang, D, Valerie Kwan, V, Lim, KE, Nathan, Y, Ow, YX, Hortua, D, Sloey, T, , **Yando, ES**, Ibrahim, H, Koh, LP, Puah, JY, Teo, S L-M8, Tun, K, Wong, LW, and SM Yaakub. *Submitted*. Blue carbon science, management, and policy across a tropical urban landscape. Target Journal: *Journal of Environmental Management*
- Yando, ES**, James, WR, Jones, SF, Colombano, DD, Nolte, S, Montemayor, D, Raw, J, Ziegler, S, Chen, L, D. Daffonchio, Fusi, M, Rogers, K, & L Sergeenko. *In prep*. Conceptualizing salt marshes for global comparisons. Target Journal: *Global Ecology and Biogeography*
- Lagomasino, D, Sloey, TM, Castañeda-Moya, Charles, SP, Xiong, L & **ES Yando**. *In prep*. The kids are alright: Challenges to and importance of considering intermediate ontogenetic stages in mangrove forest recovery and restoration. Target Journal: TBD

**TEACHING & TRAINING EXPERIENCE**

<b>Courses Taught</b>	<b>Spring 2022</b>	Botany (BIOL 308) - ODU
	<b>Spring 2021</b>	Wetland Plants (BIOL 419/519) - ODU
	<b>Fall 2020, 2021</b>	Marine Ecology (BIOL 415W/515) - ODU
	<b>2016</b>	Estuarine and Coastal Ecology- UL Lafayette
<b>Training</b>	<b>2012</b>	Molecular Ecology- Connecticut College
	<b>2017</b>	Biology Education Certification, UL Lafayette

**ADVISING & MENTORSHIP**

<b>Students Advised /Mentorship</b>	<b>2021-Present</b>	Zlatka Rebolledo Sánchez	MS Student, ODU- Biology	
	<b>2019-20</b>	Sonali Manimaran	Senior Thesis, NTU-ASE (Co-Adv.)	
	<b>2022-Present</b>	2021	Sydney Dunn	UG Researcher, ODU-Biology
			Victoria Smith	Summer Grad Researcher, ODU
			Daniel Perez	UG researcher, ODU
		Chandler Slater	UG researcher, ODU	
	<b>2018-20</b>	Undergraduate & Graduate Mentor- NUS & NTU, Singapore -5 undergraduate, 3 graduate, & 2 post-bac. researchers		
<b>2014-18</b>	Undergraduate Mentor- UL Lafayette - 9 undergraduate researchers at UL Lafayette and USGS			
<b>Grad. Committees</b>	<b>Present</b>	Brandon Martinez	MS Student- ODU-Biology	
		Nathan Teel	MS Student- ODU-Biology	
		Sarah Durham	MS Student-ODU-Biology	
		Ella Dipetto	MS Student-ODU- Biology	
		Devani Jolman	PhD Student-ODU-Biology	

**PRESENTATIONS (\*indicates undergraduate collaborator)**

- 2021** **Yando, ES.** A multi-scale salt marsh typology for global comparisons. ODU Center for Coastal Physical Oceanography & Institute for Coastal Adaptation and Resilience Seminar (Oral- Invited)
- Yando, ES.** Plant-soil interactions across coastal ecosystem transitions at multiple scales. ODU Department of Oceanography & Earth Sciences (Oral- Invited)
- Yando, ES.** Coastal Wetlands as Model Systems for Understanding Change, Restoration, and Degradation. Department of Biological Sciences (Oral- Invited)
- 2019** **Yando, ES,** Alemu, JB, Bhatia, N & DA Friess. Carbon and plant-soil interactions across the coastal seascape. 25<sup>th</sup> Biennial Conference of the Coastal and Estuarine Research Federation (CERF). Mobile, Alabama (Oral)
- Yando, ES,** Manimaran, S<sup>+</sup>, Wong, LW, Alemu, JB, Bhatia, N & DA Friess. Ecosystem services of mangroves and other coastal systems from non-urban to urban: A review from the tropics. Mangrove, Macrobenthos, & Management 5 (MMM5). Singapore (Oral)
- Yando, ES & DA Friess.** Nutrient dynamics in mangroves. Nutrient Cycling in Tropical Harbours Workshop. Asian School of the Environment. Nanyang Technological University, Singapore (Oral)
- Yando, ES.** Natural Capital Project (Singapore's Coastal and Marine Ecosystem Services). Resilience of Coastal Ecosystems in Singapore Workshop. National University of Singapore, Singapore (Oral)
- Yando, ES.** Singapore's natural capital: Ecosystem services in the urban environment. Faculty of Arts and Social Sciences Research Cluster. National University of Singapore, Singapore (Oral)

**PRESENTATIONS (continued)**

- 2017** **Yando, ES** & MW Hester. Mechanisms of mangrove expansion: Dispersal, survival, and growth dynamics at the salt marsh-mangrove ecotone. 24<sup>th</sup> Biennial Conference of the Coastal and Estuarine Research Federation (CERF). Providence, Rhode Island (Oral)
- Yando, ES** & MW Hester. Restoration and shifting range limits: Opportunities and challenges for dual-species restoration. Society for Ecological Restoration-Southeast Chapter 2017 Symposium. Ocean Springs, Mississippi (Oral)
- Yando, ES**. 2017. Graduate Student Showcase Poster Competition, UL Lafayette. Mangrove propagule dispersal and establishment at the salt marsh-mangrove ecotone: Linking hydrology, dispersal distance, and propagule retention. Lafayette, Louisiana (Poster) **\*3<sup>rd</sup> Place STEM Pos**
- 2016** **Yando, ES**, Osland, MJ & MW Hester. Transplant success, expansion, and natural recruitment of vegetation following coastal wetland restoration: Understanding key biotic and abiotic drivers. Fall 2016 Gulf Estuarine Research Society/Society for Wetland Scientist-South Central/South Atlantic Chapter Joint Meeting. Pensacola, Florida (Oral) **\*1<sup>st</sup> Place Student Oral Presentation GERS**
- Yando, ES** & MW Hester. Mangrove propagule dispersal and establishment at the salt marsh-mangrove ecotone: Linking hydrology, dispersal distance, and propagule retention. Mangrove and Macrobenthos Meeting 4 (MMM4). St. Augustine, Florida (Poster)
- Yando, ES**, Osland, MJ & MW Hester. Vegetation trajectories following coastal wetland restoration: Understanding key biotic and abiotic drivers of planting success and natural recruitment. State of the Coast 2016 (SOC16). New Orleans, Louisiana (Oral)
- 2014** **Yando, ES**, Osland, MJ, Willis, JM, Day, R, Krauss, KW & MW Hester. Mangrove forests vs. salt marshes: the ecological implications of climate-induced woody plant encroachment on plant-soil interactions in tidal saline wetlands. Gulf Coast Plains and Ozarks LLC & Southeast Climate Science Center Webinar (Webinar)
- Yando, ES**, Osland, MJ, Willis, JM, Day, R, Krauss, KW & MW Hester. Heterogeneity in plant ecological interactions at a shifting salt marsh-mangrove ecotone in the northern Gulf of Mexico. 23<sup>rd</sup> Annual Society for Wetland Scientists- South Central Chapter Meeting. Corpus Christi, Texas (Oral)
- Yando, ES**, Osland, MJ & MW Hester. Micro-spatial examination of above- and belowground processes at the salt marsh-mangrove ecotone in the northern Gulf of Mexico. Joint Aquatic Sciences Meeting 2014 (JASM-2014). Portland, Oregon (Oral)
- Yando, ES**, Osland, MJ, Willis, JM, Day, R, Krauss, KW & MW Hester. Salt marsh-mangrove structural gradients: Implications for restoration within a shifting ecotone in Louisiana and across the northern Gulf of Mexico. State of the Coast 2014 (SOC14). New Orleans, Louisiana (Invited Oral)
- 2013** **Yando, ES**, Osland, MJ, Willis, JM, Day, R, Krauss, KW & MW Hester. Salt marsh-mangrove ecotones in the Northern Gulf of Mexico: a comparison of plant-soil variability across structural gradients. 22<sup>nd</sup> Biennial Conference of the Coastal and Estuarine Research Federation (CERF). San Diego, California (Oral)
- Yando, ES**, Hester, MW, Krauss, KW, Day, R & MJ Osland. The belowground implications of mangrove forest migration: Plant-soil variability across forest structural gradients in TX, LA, and FL. Texas Mangrove Research Symposium, Port Aransas, Texas (Oral)
- 2010** **Yando, ES**, Cohen, A, Haight, C & RS Warren. Quantifying and Determining a Possible Mechanism of Artificially Fertilized Plum Island Sound Salt Marsh Creek Banks. New England Estuarine Research Society Fall 2010 Meeting, Provincetown, Massachusetts (Oral)

**GRANTS****Grants (Pending)**

2021 -National Science Foundation, DEB-EID. The multi-scaled dynamics of spotted fever group rickettsiosis ecology. PI: H. Gaff; Senior Personnel: **E. Yando**, D. Gauthier, T. Sloey, W. Hynes. \$3,000,000

**Grants (Funded)**

2022-2024 -National Science Foundation, IUSE- Engaged Student Learning: Level I. Enhancing Undergraduate Education in Botany through Teaching, Research, Representation, and Experience. Award ID 2142348. PI: L. Wallace; Co-PIs: **E. Yando**, T. Sloey. \$290,471

2022 -Commonwealth Center for Recurrent Flooding Resilience. Assessment of restoration planting production supply and demand to support workforce development and resilience in Virginia. PI: T. Sloey, Co-PI: **E. Yando**. \$17,500

2021 -Virginia Space Grant Consortium, Internal Solicitation. From Swamp to Satellite: Connecting Multi-Scalar Monitoring of Forested Wetlands for Student Researchers in a Recent Tornado Scar. Award period: May-Sept. 2021. PI: **E. Yando**; Co-PIs: Sloey, T. Allen, G. McLeod. \$9,425

2020-2022 -Long-term Urban Mangrove Protection Understanding & Rehabilitation Project (LUMPUR) Yale-NUS College Seed Grant, PI: M. Van Bruegel; Co-PIs: **E. Yando**, T. Sloey, E. Tan, D. Friess, B. Wainwright- \$180,000 SGD

2018 -UL Lafayette Graduate Student Organization, Research & Materials Grant- \$260

2017 -Society of Wetland Scientists, Student Research Grant- \$1000  
 -UL Lafayette Graduate Student Organization, Research & Travel Grant- \$780  
 -Coastal and Estuarine Research Federation 2017 Travel Grant- \$300

2016 -State of the Coast Conference 2016, Student Grant- \$160  
 -Gulf Estuarine Research Society- Student Travel Grant- \$250  
 -UL Institute for Coastal and Water Research (ICaWR), SOC Student Travel Grant  
 -UL Lafayette Graduate Student Organization, Research & Travel Grant- \$1160

2015 -UL Lafayette Graduate Student Organization, Research Grant- \$480

2014 -UL Lafayette Ecology Center, Student Research Grant- \$250  
 -State of the Coast Conference 2014, Student Grant- \$160  
 -UL Lafayette Graduate Student Organization, Research & Travel Grant- \$560  
 -Jay Huner Travel Support Grant- \$100  
 -Society for Wetland Scientist South Central Chapter- Student Travel Grant- \$75

**Grants (Non-Funded)**

2020 -NSF MRI Proposal: Acquisition of an Isotope Ratio Mass Spectrometer for Multidisciplinary Biogeosciences Research and Training. PI: J. Whiteman, et al. (ODU Biological Sciences and OEAS) Senior Personnel: **E. Yando**, T. Sloey. \$964,954 USD. [not selected for submission]  
 -NOAA Effects of Sea Level Rise (ESLR) Proposal. Shored Up: Evaluating the performance of natural and nature-based shorelines today to predict shoreline performance tomorrow. PI: T. Sloey, Co-PIs: **E. Yando**, J. Tamborski. 2021-2025; \$940,000 USD. [not encouraged for full proposal]

2021 - Virginia Space Grant Consortium, New Investigator Program. Improving connections between remote sensing and ground-truthing to monitor post-disturbance recovery following a tornado in the Great Dismal Swamp. PI: T. Sloey; Co-PIs: **E. Yando**, T. Allen, G. McLeod. \$10,000 (Submitted)

## **AWARDS & FELLOWSHIPS**

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### **Awards**

- 2017 -UL Lafayette Graduate School, STEM Poster Competition- 3<sup>rd</sup> Place  
 2016 -Wetland Foundation, Seneca Award- \$1,500  
 -Influencer of the Year, The Independent Monthly with TEDxVermilionStreet  
 -Gulf Estuarine Research Society- 1<sup>st</sup> Place Student Oral Presentation  
 -UL Lafayette Graduate School, Graduate STEM Paper Competition- 2<sup>nd</sup> Place  
 2015 -Martial F. Billeaud Endowed Scholarship- \$1,300

### **Fellowships**

- 2018-20 -National University of Singapore, Postdoctoral Research Fellowship (3 years)  
 2014-17 -UL Lafayette Graduate School, University Fellowship (3 years)- \$18,000/ year

## **PROFESSIONAL MEMBERSHIPS**

- Coastal and Estuarine Research Federation (CERF)

## **PROFESSIONAL SERVICE**

- 2021-Present **Special Issue Editor**, Ecosystem Health & Sustainability  
 2021-Present **Member**, Faculty Search Committee, ODU Biological Sciences  
 2021-Present **Member**, Seminar Committee, ODU Biological Sciences  
 2020-Present **Member**, Kirk Wetland Fund Committee, ODU Biological Sciences  
 2020-21 **Member**, Teaching Portfolio Review Subcommittee, ODU Biological Sciences  
 2020 **Reviewer**, National Academy of Science- PEER Coastal Environment Reviewer Panel  
 2019-20 **Special Issue Editor**, Estuarine, Coastal, and Shelf Science  
 2019 **Student Presenter Judge**, Coastal and Estuarine Research Federation Meeting  
 2019 **Co-Organizer**, Mangrove, Macrobenthos, & Management 5 Post-Conference Workshop  
 2018-19 **Organizing Committee**, Mangrove, Macrobenthos, & Management 5 Conference  
 2017 **Organizing Committee**, UL Lafayette Graduate Student Symposium  
 2015-17 **Judge**, Louisiana Region VI Engineering and Science Fair  
 2012-Present **Peer reviewer for:** *PLoS ONE, Science of the Total Environment, Journal of Ecology, Scientific Reports, Ecosphere, Annals of Botany, Hydrobiologia, Estuaries and Coasts, Journal of Forestry Research, Journal of Arid Environments, Estuarine, Shelf, and Coastal Science, TREES, Wetlands, Plants and Soil, Regional Environmental Change, Remote Sensing, AGU Book Series, African Journal of Ecology, Virginia Journal of Science, Restoration Ecology, Nature Climate Change, Limnology & Oceanography*

## **COMMUNITY SERVICE**

- 2020-Present **Volunteer**, Lafayette Wetlands Partnership  
 2017-18 **Core Team**, Acadian Rain Gardens, funded via Lafayette's 24-Hour Citizen Project  
 2015-17 **Lead Curator (2017), Production Manager (2015- 2016)**, TEDxVermilionStreet

## **EDITORIALS & NON-PEER REVIEW ARTICLES**

- Friess, DA, Chua, SC, Jaafar, Z, Krauss, KW & **ES Yando**. 2021. Mangroves and people: Impacts and interactions. *Estuarine, Coastal and Shelf Science*. 248: 107155

## **WORKSHOPS & TRAINING PROGRAMS**

- 2021** Bold, Inclusive Conversations. Old Dominion University. *Norfolk, Virginia*
- 2020** Climate Change Defense. National University of Singapore. *Singapore*
- 2019** Mangrove, Macrobenthos & Management 5 – Post-Conference Workshop. *Tioman, Malaysia*  
Nutrient Cycling in Tropical Harbors. Nanyang Technological University. *Singapore*  
Resilience of Coastal Ecosystems in Singapore. National University of Singapore. *Singapore*
- 2018** Ecological Infrastructure for Coastal Resilience. National University of Singapore. *Singapore*
- 2016** Mangrove, Macrobenthos & Management 4 – Post-Conference Workshop. *Long Key, Florida*
- 2015** Building Community Resilience Through Restoration of Ecosystem Components. The Water Institute of the Gulf. *Baton Rouge, Louisiana*
- 2009** Northern Nature and Environmental Science Program. *University of Oulu, Finland* (Spring Semester)

## **RELEVANT SKILLS**

**Field and Lab Skills:** Small Boat Operation, Trailing, Maintenance & Repair; Open Water SCUBA; Wetland, Aquatic, Wetland, Forest & Coastal Plant Identification; Plant & Soil Physicochemical Analyses; RTK-GPS, GPS, & Elevation Surveying; Time Lapse Video Techniques

**Computer Skills:** R, JMP, ImageJ, ArcGIS