Curriculum Vitae, September 2023

Julia A. Bingham

PhD, Marine Science and Conservation

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I. EDUCATION

2023 **PhD., Marine Science and Conservation,** *Duke University*
Certificates: College Teaching
Primary fields: critical human geography, science & technology studies, political ecology
Advisor: Dr. Grant Murray
Thesis: *Knowledge and Power through Pluralisms and Relationality in the Governance of West Coast Vancouver Island Salmon Fisheries*

2016 **H.B.S., Biology,** *summa cum laude, Oregon State University*
Minors: Chemistry, Spanish
Research Fellow
Specialty program: Marine Biology, *Hatfield Marine Science Center* (2015)
Advisor: Dr. Mark Novak.
Thesis: *Sensitive Barnacles: A Case Study for Collaborative Sustainable Fishery Development*

2016 **H.B.A., International Studies,** *summa cum laude, Oregon State University*
Language focus: Spanish
Study abroad: Quito & Galápagos Islands, Ecuador, *Universidad San Francisco de Quito & Galápagos Academic Institute for the Arts and Sciences* (2014)

II. HONORS, AWARDS, & SCHOLARSHIPS

2023 **Dean's Award for Excellence in Teaching**, *Graduate School of Duke University (Duke GS)*
2022 **Bass Instructional Fellowship: Instructor of Record,** *Duke GS*
2017-2020 **Marine Science & Conservation Academic Award**, *Duke's Nicholas School of the Environment*
2015 **Best Undergraduate Poster**, *Western Society of Naturalists 2015 annual meeting*
2015 **Honors Experience Scholarship**, *Oregon State University*
2014, 2015 **Alex Riazance Scholarship**, *Oregon State University College of Science*
2014, 2015 **Merrill Family Fund Scholarship**, *Oregon State University College of Science*
2012-2016 **Biology Honor Roll** (11x), *Oregon State University*
2012-2016 **Provost Scholarship**, *Oregon State University*
2012-2014 **Evergreen Colorado Bootstraps Award**, *Bootstraps, Inc.*
2012 **Discus Award**

III. RESEARCH FUNDING

2023,2021 **International Dissertation Research Travel Award** ($4,000, 2x), *Duke GS*
2022 **Grants-in-Aid of Research Award** ($1,000), *Sigma Xi Honors Society*
2022,2020 **Graduate Award for Research & Training** ($1,000, 2x), *Duke University Center for International & Global Studies (DUCIGS)*
2021 **Anne Firor Scott Public Scholars Fellowship,** *Duke Forum for Scholars and Publics (FSP)*
2021-2022 **Summer Research Fellowship** ($8,250, 2x), *Duke GS*
2020 **James B. Duke International Research Travel Fellowship** ($26,300), *Duke GS*
2016 **Program Development Grant** ($10,000), *Oregon Sea Grant*
2015 **Science Scholarship** ($1,000), *OSU College of Science*
2015 **Grants-in-Aid of Research Award** ($1,000), *Sigma Xi Honors Society*
2014 **International Degree Research Award** ($1,200), *Oregon State University*

IV. RESEARCH CONTRIBUTIONS

a. PROJECTS

Ongoing **Integrated Ecosystem Assessment: Fisheries and Offshore Wind in the Gulf of Maine**

NOAA Fisheries' Northeast Fisheries Science Center (NEFSC), with the Responsible Offshore Development Alliance (RODA) and The University of Rhode Island Coastal Resources Center (URI CRC). Funded by NEFSC and BOEM

2019-2023 **Knowledge and Power in Governance and Management of West Coast Vancouver Island Salmon Fisheries**
Duke University Marine Lab; Doctoral Dissertation research advised by Dr. Grant Murray
Funded by Duke University, Genome British Columbia, Genome Canada.
In partnership with Tla-o-qui-aht First Nations and Ha'oom Fisheries Society

2018-2021 **The Value of Fishing, Farming and Eating: new approaches to understanding coastal community well-being**
Duke University Marine Lab; Graduate student researcher supervised by Dr. Grant Murray
Funded by NC Sea Grant

2019-2021 **Enhancing Production in Coho: Culture, Community, Catch (EPIC4)**
Activity 5: *Assessing the effectiveness of EPIC4 technologies through GE3LS Research*
Assignment: *Description of Knowledge Mobilization (KM) of Coho through First Nations evaluative and regulatory structures to potential implementation*
Duke University Marine Lab; Graduate student researcher supervised by Dr. Grant Murray
Funded by Genome British Columbia, Genome Canada

2020 **Gulf of Mexico Ecosystem Service Logic Models & Socio-Economic Indicators (GEMS)**
Assignment: *Development of protocols to assess and integrate equity concerns into outcome monitoring of living shorelines and coastal restoration interventions*
Duke University, Nicholas Institute for Environmental Policy Solutions
Research Assistantship, supervised by Rachel Karasik and Lydia Olander

2018-2019 **Growth and Opportunity for Whom? Aquaculture Narratives in Down East, North Carolina**
Duke University Marine Lab; Research Assistantship supervised by Dr. Grant Murray
Funded by NC Sea Grant

2016 **Development of a Sustainable Gooseneck Barnacle Fishery; Initial Investigations**
Oregon Institute for Marine Biology; Research assistantship supervised by Dr. Alan Shanks
Funded by Oregon Sea Grant.

2016 **Sensitive Barnacles: Case Study for Collaborative Sustainable Fishery Development**
Oregon State University Dept. of Integrative Biology
Undergraduate Honors Thesis; mentorship by Dr. Mark Novak
Funded by Oregon State University

b. PUBLICATIONS

Bingham, J.A., Milne, S., Murray, G., and Dorward, T. (2021). Knowledge pluralism in First Nations' Coho salmon fisheries management. *Frontiers in Marine Science*. 8: 405. doi.org/10.3389/fmars.2021.671112

Campbell, L.M., Fairbanks, L., Murray, G., Stoll, J., D'Anna, L., and **Bingham, J**. (2021). Blue Communities: Reframing the Blue Economy for Wellbeing. *Marine Policy.* 124: 104361. doi.org/10.1016/j.marpol.2020.104361

c. REPORTS & THESES

Koop, B., Davidson, W., Bernatchez, L., Beacham, T., Bendriem, N., Berseth, V., **Bingham, J.**, Chan, M., Matthews, R., Milne, S., Murray, G., Sumaila, R., Yáñez, J.M. (2021). *Coho Genomics: Conservation, Production, Management & Communities.* (Technical report). EPIC4 – Enhancing Production in Coho: Culture, Community, Catch. http://www.sfu.ca/epic4/EPIC4SummaryForPolicymakers.pdf

Bingham, J., Milne, S., and Murray, G. (2020). *Governance and knowledge mobilization in Coho fisheries of Tla-o-qui-aht First Nations and T'aaq-wiihak Fisheries, and consideration of fit for integration of EPIC4technologies.* EPIC4 Activity 5 project report for Tla-o-qui-aht First Nations Lands Department.

Bingham, J. and Masso, S. (2020). *Decision-Making Support Tool and Protocol for Restoration, Enhancement,and Harvest Management of Cuẃit (Coho Salmon).* Tla-o-qui-aht First Nations Lands and Natural Resources Department

Del Angel, D., **Bingham, J.,** Díaz, B.A., Suárez, A.M., Fabián, M.R., and Palacioa, G.F. (2018). "Proposed Socio-economic Environmental Health Report Card Indicators for Cauguanes National Park, Cuba."

Student Contributions in: McLaughlin et al. (ed) 2018. *Development of an Environmental Report Card to Track the Impact and Subsequent Recovery of Hurricane Irma (September 2017) on the Natural and Human Ecosystems in Northern Central Cuba.* SWIMM Student Workshop on International Coastal andMarine Management 2018 workshop, Hart Research Institute and Texas A&M Corpus Christi. www.harte.org/sites/default/files/inline-files/SWIMM%202018%20Student%20Contributions%20Report.pdf

Bingham, J., Thomas, M., and Shanks, A. (2017). Development of a Sustainable Gooseneck Barnacle Fishery;Initial Investigations. (Technical Report) Oregon Sea Grant. https://seagrant.oregonstate.edu/sites/seagrant.oregonstate.edu/files/sgpubs/onlinepubs/s-17-002_development_of_a_sustainable_gooseneck_barnacle_fishery.pdf

Bingham, J. and Novak, M. (2016). *Sensitive Barnacles: A Case Study for Collaborative Sustainable FisheryDevelopment* (Undergraduate Honors Thesis). Oregon State University. https://ir.library.oregonstate.edu/concern/honors_college_theses/7w62fb385

d. PAPERS IN PREPARATION OR REVIEW

Choi, J., **Bingham, J.,** Morton, J., and Kamakura, R. (2023) Critically Examining Conservation's Values. *Journal for Nature Conservation.* (in review)

Bingham, J., Reid, A., and Murray, G. (2023). A critical review of efforts to integrate traditional and scientific knowledges in fisheries governance and management. (in prep for submission)

Bingham, J., Basurto, X., and Murray, G. (2023). Building Strategic Partnerships for Salmon Management Through Knowledge Pluralisms and Relational Governance. (in prep).

Bingham, J., Silver, J., and Campbell, L.M. (2023). Frictions Between Pluralistic and Fragmented Knowledge Frameworks Enforced by Western Scientific Knowledge as Colonial Law (in prep)

Baker, D., **Bingham, J.**, Murray, G., and Fail, R. Reciprocity and Relational Values in Three Fisheries Case studies. *Ecology and Society* (in prep)

Fairbanks, L. Campbell, L.M., Stoll, J., **Bingham, J**., Murray, G., and D'Anna, L. From Blue Economy to Blue Communities: reorienting aquaculture expansion for community wellbeing. (in prep)

V. CONFERENCES, WORKSHOPS, SEMINARS, AND OTHER PRESENTATIONS

2022	Resource Sovereignty and Environment Justice seminar speaker for Climate Justice & Global Intersectionality House Course, Duke University Nicholas School (presentation)
2022	POLLEN (Political Ecology Network) asynchronous workshop; remote (presentation)
2022	Dimensions of Political Ecology (DOPE) annual conference; remote (presentation)
2022	Pathways: Life without Salmon? Human Dimensions of Natural Resources annual conference; remote (presentation)
2021	International Congress for Conservation Biology (ICCB) by the Society for Conservation Biology; annual conference; remote (presentation)
2021	Centre for Maritime Research (MARE) biannual conference; remote (presentation)
2021	PhD Dissertation Update Seminar; Duke University Marine Lab (presentation)
2020	International Marine Conservation Congress sixth annual conference (IMCC6), by the Society for Conservation Biology; remote (presentation)
2020	PhD Dissertation Update Seminar; Duke University Marine Lab (presentation)
2019	American Association of Geographers annual meeting; Washington, DC (presentation)
2019	World Aquaculture Society annual meeting; New Orleans, LA (presentation)
2019	PhD Dissertation Update Seminar; Duke University Marine Lab (presentation)
2018	MarCuba 2018, XI Congress on Marine Sciences; Havana, Cuba (presentation)
2018	Graduate Association of Food Studies annual meeting; UNC Chapel Hill (presentation)
2016	Gooseneck Barnacle Fishery Public Seminar; Port Orford, OR (presentation)
2016	Gooseneck Barnacle Fishery Public Seminar; Coos Bay, OR (presentation)
2016	Western Society of Naturalists annual meeting; Monterey, CA (presentation)
2016	Oregon Sea Grant Scholars Symposium; Corvallis, OR (presentation)
2016	Gooseneck Barnacle Public Seminar, OSU Port Orford Field Station (presentation)
2015	Western Society of Naturalists annual meeting; Sacramento, CA (poster)
2015	OSU Center for Genome Research and Bioengineering Conference; Corvallis, OR (poster)
2015	OSU Summer Undergraduate Research Experience Symposium; Corvallis, OR (presentation)

VI. PROFESSIONAL POSITIONS

Postdoctoral Fellow, *University of Rhode Island's Coastal Resources Center & National Oceanic and Atmospheric Administration (NOAA),* September 2023 – Present
Develop an Integrated Ecosystem Assessment (IEA) between fisheries and offshore wind development in the Gulf of Maine. Steps include conceptual modeling, indicator identification and development, and indicator data collection informed through local ecological knowledge and knowledge co-production.

Social Scientist, *Ocean Associates Inc.,* May – August 2023
Contractor position with NOAA Fisheries' Northeast Fisheries Science Center (NEFSC) to support the development of a conceptual model of interactions between fisheries and offshore wind development in the Gulf of Maine, and plan and coordinate stakeholder workshops for iterative model development. The model will inform the development of an Integrated Ecosystem Assessment (IEA).

Instructor of Record, *Duke University,* August-December 2022
Designed and taught a three credit, two-hundred level Undergraduate course in Marine Policy, with a special focus on how policy is informed through science, social values, and local and traditional ecological knowledges. Class was taught in a hybrid format to accommodate mix of mix of in-person and virtual/remote students. Primarily focused on domestic U.S. environmental and marine law and policy, with some international examples. Introduced students to the basics of governance, management, and the policy cycle, and overviewed a variety of different types of marine policy issues (e.g. fisheries, spatial planning, energy development, social impacts and equity issues). Students learned to write policy memos.

Graduate Student Researcher, *Duke University,* Aug 2017 – Aug 2023
Designed and implemented dissertation research. Methodologies informed through traditions of sociology political ecology, and indigenous research methodologies. Methods include literature review, case study research, interviews, participant observation, document review, and qualitative analysis of data utilizing grounded theory. Presented at local, regional, and international conferences. Engaged in professional service, community outreach, and research communication. Wrote and applied for fellowships and grants to support research (total awarded: $5,750 in grants, $55,550 in fellowships). Wrote manuscripts for publication. In the process of writing dissertation thesis. Collaborating in additional research projects with other faculty and graduate student researchers, including an interdisciplinary project utilizing Q-method to describe social values and preferences of seafood production in local and regional communities.

Research assistant & intern, *Nicholas Institute for Environmental Policy Solutions,* May - Aug 2020
Assisted in a multidisciplinary, inter-institutional project to develop coastal ecosystem service logic models. Duties included synthesizing literature concerning equity in environmental management interventions and develop a protocol for incorporating equity concerns into the coastal resilience projects such as coastal restoration and living shoreline development, particularly for the Gulf of Mexico and mid-Atlantic. Protocol is designed to guide practitioners in assessing equity of the process and outcomes of said projects in such a way that equity can be included in the logic models of the broader project.

Graduate Teaching Assistant, *Duke University and Duke University Marine Lab*. Aug 2017 – Dec 2019
Helped teach and lead students in lectures, field trips, and hands-on classroom assignments. Developed students' skills in critical thinking, problem solving, reading and synthesizing academic literature, conducting qualitative analysis, and scientific and professional writing and editing. Designed and graded student exams and assignments including written reports. Organized field trips. Taught guest lectures. Assisted professors in course design. Individual courses listed below.

Graduate Student Research Assistant, *Duke University Marine Lab,* May 2018 – Aug 2018
Assisted in qualitative research regarding social environmental values in small coastal communities, focusing on values and preferences regarding local oyster aquaculture. Methods include case study research, interviews, surveys, document review, and thematic analysis of qualitative data.

Education and Outreach Intern, *South Slough National Estuarine Research Reserve,* Aug - Nov 2016
Led 'Watershed Hikes' with elementary school class groups through the reserve and taught basic lessons about local species and ecosystems along the way. Developed a lesson plan to introduce elementary students to the concept of a watershed. Developed adaptable lesson plans for introducing middle school and high school students to using Excel to collect and analyze data. Assisted in water monitoring and trawl surveys of the estuary. Improved species identification skills.

Research Assistant, *Oregon Institute for Marine Biology***,** June – Nov 2016

Designed a field-based study of *Pollicipes polymerus* for the purpose of informing fishery development and harvest management policy. Co-designed and assisted in experimental trials of onshore mariculture prototypes and assessing how differential feeds and water flow rates affect growth rates of transplanted *P. polymerus*. Gained experience in fieldwork, experimental design, and lab skills. Developed skills in quantitative data management, assessment, and statistics. Coordinated multiple public outreach events and assisted collaborators in gauging stakeholder interest in fishery development. Led writing a summary technical report of the project for funders and fishery managers. Supervised by Dr. Alan Shanks.

URSA Undergraduate Research Ambassador, *Oregon State University Office of Undergraduate Research, Scholarship, and the Arts (OSU URSA)*, Apr 2015 - June 2016
Assisted in connecting other undergraduate students to research opportunities through providing advice and peer mentorship in contacting potential mentors and applying for research positions. Worked at campus tables during campus events to answer questions about the OSU URSA engage program.

Internal Coordinator, *Oregon State University Center for Civic Engagement*, Sept 2013 – Aug 2014
Planned and organized local volunteer projects with community partners for undergraduate student participation. Coordinated student attendance and led student groups to participate in volunteer projects. Coordinated civic engagement themed campus-based events that connected students to off-campus volunteer opportunities. Matched individual undergraduate students to specific community partners for long-term volunteer engagement. Developed skills in networking, time management, collaboration, group leadership, project management, and inclusivity training.

Undergraduate Research Assistant, *Oregon State University*, Feb 2013 - June 2016
Supervised by Dr. Mark Novak. Assisted in set up, monitoring, and data collection for intertidal ecology field experiments assessing indirect effects of trophic interactions between intertidal invertebrates. Conducted fieldwork in extreme physical conditions. Assisted in analysis of photographed data by identifying and tallying organisms captured in images. Developed independent research project. Gained experience in experimental design and management. Gained experience in data collection, analysis, statistics, and scientific writing. Assisted in training future research assistants. Wrote and applied for research grants (total awarded $3,200).

VII. TEACHING EXPERIENCE

a. Instruction

2022 *Marine Policy,* with special topic: *Informing Policy through Science, Social Values, and Local and Traditional Ecological Knowledges*, Duke University Marine Lab, Undergraduate course, hybrid online and in-person format. Instructor of Record.

2021 *Indigenous knowledges and Science in Fisheries,* Duke University Marine Lab, Graduate Student Seminar, co-instructed with Dr. Grant Murray

2019 *Conservation Biology and Policy*, Duke University Marine Lab, Undergraduate field-based course, co-instructed with Dr. Rachel Gittman

b. Teaching Assistantships

2020 *Social Impact Analysis,* Duke University Marine Lab, teaching assistant for Dr. Grant Murray
2019 *Marine Policy*, Duke University Marine Lab, Dr. Grant Murray
2019 *MPAs and Marine Spatial Planning,* Duke University Marine Lab, Dr. David Gill
2018 *Marine Megafauna*, Duke University, Dr. Meagan Dunphy-Daly
2017 *Ocean and Coastal Law and Policy*, Duke University School of Law, Professor Steve Roady

c. Guest Lectures

2020 *Political Ecology of Marine Sciences,* Duke University Marine Lab (DUML)
2020 *Marine Trophic Ecology*; Duke University
2019 *Social Environmental Values of Aquaculture Down East*, DUML
2019 *Social-ecological Impacts and Trade-offs in Coastal Conservation*, DUML
2019 *Social Environmental Values and Discourse in Coastal Conservation Policy*, DUML
2019 *Marine Trophic Ecology*; Duke University
2019 *Adaptive Management in Marine Spatial Planning*, DUML
2018 *Physiology and Ecology of Pinnipeds;* Duke University

2018 *Marine Trophic Ecology*; Duke University
2018 *Evolutionary Biology of Marine Megafauna*; Duke University
2017 *Fisheries and Ocean Ecosystems: ecosystems and policy*; Duke University School of Law
2017 *Coastal watersheds: ecosystems and policy*; Duke University School of Law
2017 *Gooseneck Barnacle Fishery Development & Research*; Pacific University

d. Certificate In College Teaching Requirements (exp. completion 2023)
2022 *Facilitating Student Learning and Teaching Innovation*, online course
2019 *College Teaching and Course Design,* weekly seminar
2019 "Teaching Triangles": 4+ hours college level teaching experience under peer observation, 4+ hours observation of peer teachers, two interviews of professors regarding teaching pedagogy

VIII. MENTORSHIP

2021-2022 Bentley Choi, Undergraduate Student Researcher, Duke University Marine Lab
Mentoring student as an assistant to conducting a historical grey literature and public legal records review and timeline development project for the third chapter of doctoral dissertation.
2021-2022 Ariel Chukwuma, Undergraduate Student Researcher, Duke University Marine Lab
Mentoring student as an assistant to conducting a historical grey literature and public community records review and timeline development project for the third chapter of doctoral dissertation.
2020-2021 Sage Riddick, MSc, Graduate Student Researcher, Duke University Marine Lab
Mentored Master's student as an assistant to conducting a literature review project for the first chapter of doctoral dissertation, particularly sorting of literature and analysis of results

IX. PROFESSIONAL SERVICE & OUTREACH

2021 **C-Coast Listening Session Facilitator,** *Collaboratory for Coastal Adaptation over Space & Time (C-Coast)*, (Carteret County, NC)
2021 **Mission Statement Development and Event Planning,** *Girls Engaging in Science and Technology (GEST)*, Duke University Marine Lab
2020-2021 **Graduate Communications Coordinator**, Duke University Marine Lab
2020 **VanDover Inclusivity Travel Award Program Coordinator**, Duke University Marine Lab
2019-2020 **Volunteer Educator,** *Community Science Initiative,* Duke University Marine Lab
2019 **Activity Leader and Panelist,** *Girls Engaging in Science and Technology (GEST)*, University of North Carolina Institute for Marine Sciences (Morehead City, NC)
2018-2019 **Group / Activity Leader,** *Girls Engaging in Science and Technology (GEST)*, Duke University Marine Lab, 2x
2018-2019 **Seminar Series Coordinator**, Duke University Marine Lab
2018 **Open House participant host**, Duke University Marine Lab
2017-2018 **MSC PhD Student Representative,** *Graduate and Professional Student Council General Assembly*, Duke University
2013, 2015 **Activity Host,** *Marine Science Day*, OSU Hatfield Marine Science Center, 2x (Newport, OR)

X. COMMUNITY VOLUNTEER SERVICE & STUDENT ENGAGEMENT

2022-2023 **Recreational Soccer Coach,** *Seashore Soccer League*, Under-6 co-ed & youth TOPSoccer for players with physical and learning disabilities (Carteret County, NC)
2019-2022 **Volunteer,** *Misplaced Mutts* (Beaufort, NC)
2018-2021 **Soccer Tournament Coordinator**, *DUML Annual World Cup*, Duke University Marine Lab
2018-2020 **Recreational Soccer Coach,** *Seashore Soccer League*, Under-10 co-ed (Carteret County, NC)
2019 **Volunteer,** *Carteret County Humane Society* (Newport, NC)
2015-2018 **OSU DIVEST Campus Coordinator,** *OSU Divest Student Movement*, Oregon State University
2014-2016 **Volunteer Project Lead and Participant**, *Center for Civic Engagement*, Oregon State University
2013-2016 **NSCS member**, *National Society of Collegiate Scholars* (NSCS) Oregon State University Chapter
2013-2015 **Club Officer and Project Coordinator**, *OSU Food Group,* Oregon State University
2013 **Math Tutor,** *College Hill Alternative Learning High School* (Corvallis, OR)

2013 **Market Assistant - SNAP Benefits Table,** *Indoor Winter Farmers Market* (Corvallis, OR)
2012-2014 **Club Member**, *OSU Organic Growers Club*, Oregon State University
2010-2013 **Visitor Assistant,** *Evergreen Nature Center* (Evergreen, CO)
2010-2012 **Judge's Assistant** *WJMS Science Fair,* West Jefferson Middle School, 3x (Conifer, CO)
2009-2012 **Judge**, *Marshdale Elementary Science Fair*, Marshdale Elementary, 4x (Evergreen, CO)

XI. ADDITIONAL SKILLS

College-level teaching, in person and virtual
Workshop facilitation, in person and virtual
Systematic literature review using Colandr
Figure design in Adobe Illustrator
Qualitative Analysis in NVivo
Quantitative analysis using R
Ethnographic fieldwork
Marine and coastal ecological fieldwork
Public Speaking
SCUBA PADI Certified Advanced Diver
Grade school environmental education & outreach
Spanish fluency and basic German language skills

XII. MEMBERSHIPS

American Association of Geographers (2018-2020)
Graduate Association of Food Studies (2018-2019)
World Aquaculture Society (2018-2019)
Western Society of Naturalists (2015-2017)

XIII. PROFESSIONAL REFERENCES

Dr. Grant Murray: Associate Professor, Duke University Nicholas School of the Environment,Duke University Marine Lab; grant.murray@duke.edu

Dr. Saul Milne, Strategic Coordinator, Ha'oom Fisheries Society; saul@haoom.ca

Dr. Meagan Dunphy-Daly, Instructor, Duke University Nicholas School of the Environment,Marine Science and Conservation Division; meagan.dunphy-daly@duke.edu

Steve Roady, Professor of the Practice of Law at Duke Law School, Professor of the Practice for Marine Science and Conservation at the Duke Nicholas School of the Environment; steve.roady@duke.edu

Dr. Lisa Campbell: Associate Professor, Duke University Nicholas School of the Environment, Duke University Marine Lab; lisa.campbell@duke.edu