Tiara N. Moore

Marine Ecologist

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EDUCATION

Ph.D. (2019) Biology, University of California Los Angeles, CA, USA

M.S. (2013) Biology, Hampton University, VA, USA

B.S. (2011) Biology, Winthrop University, SC, USA

PROFESSIONAL EXPERIENCE

Chief Executive Officer (2023-Present) Black In Marine Science, USA

• Leading a global network of 600 marine scientists across 35 countries to build innovation in marine science.

Black In Marine Science Program Lead (2021-2023) The Nature Conservancy, Seattle, WA

• Celebrating Black marine scientists, spreading environmental awareness and inspiring the next generation of scientific thought leaders.

Postdoctoral Fellow/Applied Scientist 1 (2020-2021) The Nature Conservancy, Seattle, WA

• Independent Research: Using environmental DNA (eDNA) to assess ecosystem biodiversity in the Olympic Peninsula

Postdoctoral Fellow (2019-2020) University of Washington, Seattle, WA

• Independent Research: Using environmental DNA (eDNA) to assess ecosystem biodiversity in the Olympic Peninsula

Teaching Fellow (2018-2019) UCLA, Los Angeles, CA **

• Program for Excellence in Education & Research in the Sciences (PEERS, EEB97XA) Teaching Fellow (2018) UCLA, Los Angeles, CA

• Lab instructor for genetics, evolution, and ecology (LS 7B), and marine botany (EEB 101)

Teaching Associate (2016-2017) UCLA, Los Angeles, CA

• Lab instructor for basic principles of evolution and ecology (LS 1), and marine science (EEB 109)

Graduate Research Assistant (2015-2019) UCLA, Los Angeles, CA

• Independent Research: Exploring eutrophication driven acidification in California estuaries and impacts to sediment biogeochemistry

Teaching Assistant (2013-2015) Old Dominion University, Norfolk, VA

• Lab instructor for basic principles of oceanography (OEAS 101)

Graduate Research Assistant (2012-2013) Hampton University, Hampton, VA

• Research: Sedimentary oxygen demand and orthophosphate release in the James River

^{**} promotes equity in science

Research Assistant (2011-2012) Hampton University, Hampton VA

• Collected weekly water samples from Hampton Roads for nutrient analyses

PUBLICATIONS

Peer reviewed:

2024: **Moore T, A**dams, L & more. "The Black In Marine Science Blueprint." *Integrative and Comparative Biology*, Volume 64, Issue 4, October 2024, Pages 1055–1063, https://doi.org/10.1093/icb/icae153

2024: Adams, L & Moore, T. "The Joy Factor: Redefining Leadership Excellence at Black In Marine Science." *Integrative and Comparative Biology*, Volume 64, Issue 4, October 2024, Pages 1162–1170, https://doi.org/10.1093/icb/icae148

2021: **Moore T,** Gaynus C, Levin P & Meyer R. "The Intersection of Forensic Techniques with Ecological Issues." In: Underkoffler S & Adams H. (eds) Wildlife Biodiversity Conservation.

2021: Lin M,, **Moore T,** & Meyer R. "Landscape Analyses Using eDNA Metabarcoding and Earth Observation Predict Community Biodiversity in California." *Ecological Applications*, 31(6):e02379. 10.1002/eap.2379

2021: Meyer R,, **Moore T,** & Wayne R. "The CALeDNA Program: Citizen Scientists and Researchers Inventory California's Biodiversity." *California Agriculture*.

2021: Fong C,, **Moore T** & Fong P. "Flip it and Reverse it: Reasonable Changes in Designated Controls Can Flip Synergisms to Antagonisms." *Science of The Total Environment*.

2019: **Moore T**. "Nutrient Enrichment Promotes Eutrophication in the Form of Macroalgal Blooms Causing Cascading Effects in Two Anthropogenically Disturbed Coastal Ecosystems." *ProQuest Dissertations and Theses.*

2018: **Moore** T & Cuker B. "Sedimentary Oxygen Demand (SOD) and Orthophosphate Release: Sustaining Eutrophication in a Tributary of the Chesapeake Bay." *Journal of Water Resources and Ocean Science*.

2016: Leasi F, Gaynus C, Mahardini A, **Moore T**, Norenburg J & Barber P. "Spatial and Ecological Distribution of Neglected Microinvertebrate Communities Across Endangered Ecosystems: Meiofauna in Bali (Indonesia)." *Marine Ecology*.

Op-Eds:

2020: El-Sabaawi R, Kantar M, **Moore T**, Pantel J, Tseng M & Ware J. "The EEB POC Project." *Limnology and Oceanography (L & O) Bulletin.* **

2018: Moore T. "The Only Black Person in the Room." L & O Bulletin. **

2018: **Moore** T & Oguguah N. "Student Activities in Victoria, ASLO Summer meeting 2018." *L* & *O Bulletin*.

2018: Elser J, **Moore T** & Oguguah N. "How to Become a Member of the ASLO BOARD in Three Easy Steps." *L* & *O Bulletin*. **

2018: Schiebel H, Gleiber M, **Moore T** & Pagniello C. "2018 Ocean Sciences Meeting Student and Early Career Activities: Successes and Thoughts Moving Forward." *L* & *O Bulletin*.

2017: **Moore** T & Wilkinson G. "Student Highlights from ASLO ASM 2017." L & O Bulletin.

2017: Wilkinson G, Gaynus C, **Moore T**, Rosengard S, Schiebel H & Zwart J. "Innovations and Solutions for ASLO Student Travel Grants." *L & O Bulletin.* **

CONFERENCE PRESENTATIONS

International Women In Conservation Summit

2024: "Belizean Women Leaders in Marine Science."

Association for the Sciences of Limnology and Oceanography (ASLO) Aquatic and Ocean Sciences Meetings

2020: "eDNA and GeoChip: New Tools Linking Microbial Communities to Biogeochemical Functions in Eutrophic Estuarine Sediment."

2019: "Anthropogenic Disturbances Enhance Nutrient-Driven Acidification in 2 California Estuaries."

2016: "Sediment, Nutrients & Interspecific Competition Control Growth of 2 Common Species of Reef Macroalgae."

2015: "Ocean Acidification effects on Carbonate Dissolution."

2014: "Abundance and Diversity of Meiofauna in Bali, Indonesia."

2013: "Sediment Oxygen Demand & Phosphate Release in the Hampton River Tributary of the Chesapeake Bay."

Western Society of Naturalists (WSN) Annual Meeting

2018: "Anthropogenic Disturbances Enhance Nutrient-Driven Acidification."

University of California Genomics Consortium Workshop

2018: "eDNA and Geochip: New tools to Analyze Human Dominated Estuaries."

Indonesia Biodiversity Summer Research Symposium **

2013: "Abundance and Diversity of Meiofauna in Bali, Indonesia."

CIVIC ENGAGEMENT

2024: Sharks of the Dead Zone. Shark Week Host

2021: Lab Rascals Marine Biology Camp. Guest Host and Speaker **

2021: PADI International Women and Girls in STEM Day. Panelist **

2020: EarthEcho International STEMExplore. Career Connection: "Environmental Forensics."

2020: Black In Marine Science Week. Founder **

2020: Young Women Empowered. Panelist: "Black Voices for Climate Justice." **

2020: North Carolina A & T. **Guest Lecturer**: "Environmental DNA & Biodiversity Assessments Help Fight Climate Change." **

2020: Black In Geoscience Week. Organizer **

2020: International Marine Conservation Congress. **Organizer**: "Establishing a Space for Women of Color in Marine Science." **

2020: ASLO Multicultural Program (ASLOMP). Mentor **

2020: Audubon Center. Guest Lecturer: "Science, Nature & A Biscuit: Environmental DNA."

2019: Rising Toward an Inclusive, Diverse, and Enriched Society (TIDES). Mentor **

- 2019: Skype-A-Scientist. Volunteer Scientist **
- 2019: Environmental Professionals of Color Summit. Panelist: "Navigating Grad School." **
- 2019: Brentwood Science Magnet Career Day. Volunteer
- 2019: CalEPA Citizen Science Fair. CALeDNA program representative
- 2019: Transactions of the American Society of Agricultural and Biological Engineers. Reviewer
- 2019: ASLO Student Workshop. Organizer: "I Need the Degree AND the Money."
- 2019: UCLA Marine Ecology. **Guest Lecturer**: "Anthropogenic Stressors and Interspecific Interactions Alter Growth of 2 Common Calcifying Coral Reef Macroalgae."
- 2019: The University of Washington. **Guest Lecturer**: "You Can Have a Dream, but You Need a Plan, Allies, and Grit."
- 2019: The Nature Conservancy. Guest Speaker: "Conservation in the Anthropocene."
- 2019: UCLA EEB department. Professional development coordinator
- 2019: UCLA Grad Division Diversity Panel. STEM representative **
- 2017-2019: CALeDNA Citizen Science Program. Volunteer Scientist
- 2018-2019: UCLA EEB department. Graduate Student Faculty Liaison
- 2018: Succeeding in Science Panel. Minority representative **
- 2018: CSU & HBCU graduate student panel for incoming students. STEM representative **
- 2018: Wise Readers to Leaders. Volunteer
- 2018: UCLA Marine Botany. Guest Lecturer: "Does Eutrophication-Driven Acidification
- Occur in Human Dominated Estuaries and is it Influenced by Sediment Biogeochemistry?"
- 2018-2019: ASLO Aquatic Sciences Meeting Scientific Planning Committee. Student member
- 2018: ASLO Student Publishing Workshop. Moderator: "Publish Me Please."
- 2018: ASLO Student Negotiations Workshop. **Moderator**: "How to Ask, so You Shall Receive."
- 2017-2018 ASLO Summer Meeting Scientific Planning Committee. Student member
- 2017: UC Davis McNair Scholars graduate student panel. Panelist **
- 2017: ASLO Workshop. Facilitator: "Embracing Diversity in our Scientific Community." **
- 2017: ASLO Student Workshop. Facilitator: "PhD, Now What?"
- 2016-2018: ASLO Student Activities Committee. Chair **
- 2016-2017 ASLO Aquatic Sciences Meeting Scientific Planning Committee. Student member
- 2016: Career Day at ICEF Innovation Charter School. Guest Lecturer: "My Life Underwater."
- 2016: Marine Science Day at W. A. Perry Middle School. Guest Lecturer: "Underwater."
- 2016-2018: UCLA California Teach S-STEM Scholars Program. Mentor **
- 2016: Uniting Graduate Students through Mentoring. Cofounder **
- 2015-2019: Fong Lab Undergraduate Researchers. Mentor **
- 2015-2018: ASLO Education Subcommittee. Member
- 2015-2016: Diversifying Mathematics and Physics. Cofounder **
- 2015-2017: Gang Reduction and Youth Development (GRYD) Foundation. Mentor
- 2013: Hampton Clean City Commission 35th Anniversary. Keynote Speaker: "Coral Reefs."

INVITED SPEAKING ENGAGEMENTS

- 2025: Belize World Maritime Day. Panelist: "Women At the Helm" **
- 2021: California Academy of Sciences NightSchool. **Queering Science Guest Speaker**: *"Finding T."* **
- 2021: Green Heritage Fund Suriname. **World Ocean Day Keynote Speaker**: "One Ocean, Big Pollution and You." **
- 2021: University of California, Davis. **Bodega Marine Lab Seminar Speaker**: "Environmental DNA & Biodiversity Assessments: Small Tools with Big Impacts."
- 2021: University of Washington. **Guest Lecturer**: "Environmental DNA & Biodiversity Assessments: Small Tools with Big Impacts."
- 2021: Bowie State University. **Panelist**: "Equity and Environment: Past and Future of the Bay Environmental Movement." **
- 2021: University of San Diego. **Department of Environmental and Ocean Sciences Seminar Speaker**: "Environmental DNA & Biodiversity Assessments: Small Tools with Big Impacts."
- 2021: University of California, Berkeley. **Department of ESPM Seminar Speaker**: "Dirt DNA & Biodiversity Assessments, Establishing Solutions for Restoration in the Anthropocene."
- 2021: University of Washington, Bothell. **School of STEM Seminar Speaker**: "Environmental DNA & Biodiversity Assessments: Small Tools with Big Impacts."
- 2021: Restore America's Estuaries. **Webinar Speaker**: "Eutrophic Estuaries and Racist Systems: A Love Story." **
- 2021: Northeastern University. Marine and Environmental Sciences Seminar Speaker:
- "Environmental DNA & Biodiversity Assessments: Small Tools with Big Impacts."
- 2021: University of Miami RSMAS. **Undergraduate Seminar Speaker**: "Environmental DNA and Ecosystem Biodiversity Assessments."
- 2021: University of Washington Program on the Environment. **Seminar Speaker**: "The Underground Social Media Road." **
- 2020: Black In Marine Science Week. Panelist: "Diving While Black." **
- 2020: University of Miami RSMAS. **Graduate Seminar Speaker**: "Environmental DNA Biodiversity Assessments Help Fight Climate Change."
- 2020: Stanford Woods Institute for the Environment. **Panelist**: "Making Graduate Science More Inclusive." **
- 2020: University of British Columbia. **Guest Lecturer**: "Environmental DNA & Biodiversity Assessments."
- 2020: Boston University Biogeosciences Series. **Seminar Speaker**: "Eutrophic Estuaries and Racist Systems, a Love Story." **
- 2020: University of Texas at Austin. **Colloquium Speaker**: "Dirt DNA Biodiversity Assessments Help Fight Climate Change."
- 2020: North American Congress for Conservation Biology Conference. **Panelist**: "Inclusion in Conservation." **
- 2020: University of Louisiana at Lafayette Graduate Symposium. **Keynote Speaker**: "Dirt DNA Biodiversity Assessments Help Fight Climate Change."

- 2020: TNC Juneteenth Celebration. Keynote Speaker: "Intersectionality and Conservation." **
- 2020: Bellevue College. Earth Day Speaker: "Dirt DNA: Establishing A Thermometer for Fighting Climate Change."
- 2020: ASLOMP opening session. **Keynote Speaker**: "You Can Have a Dream, but You Need a Plan, Allies, and Passion too." **

HONORS, GRANTS, AND AWARDS

- 2025: American Geographical Society Honorary Fellow
- 2024: Ebony Power 100 STEM Trailblazer
- 2023: Coastal Estuarian Research Federation DEIJ Award
- 2021: California Academy of Sciences "New Science" Exhibit Feature **
- 2021: Black Voices for Black Justice Fund Recipient (\$50,000) **
- 2020: ASLO Bulletin Most Downloaded Paper of 2018-2019
- 2020: ASLO Multicultural Program Grant Recipient (conference travel expenses) **
- 2019: CERF's Rising TIDES Program Mentor (\$500) **
- 2019: ASLO Multicultural Program Grant Recipient (conference travel expenses) **
- 2019: EEB Department Graduate Spring Research Grant Recipient, UCLA (\$2,000)
- 2018: ASLO Fellow
- 2018: ASLO Multicultural Program Grant Recipient (conference travel expenses) **
- 2018: EEB Department Graduate Summer Research Grant Recipient, UCLA (\$3,000)
- 2018: EEB Department Graduate Winter Research Grant Recipient, UCLA (\$1,800)
- 2017: EEB Department Graduate Fall Research Grant Recipient, UCLA (\$1,500)
- 2016: ASLO Multicultural Program Grant Recipient (conference travel expenses) **
- 2015: La Kretz Graduate Research Grant Recipient, UCLA (\$1,200)
- 2015: UC-HBCU Initiative Fellowship Recipient, UCLA (full tuition and stipend) **
- 2015: ASLO Multicultural Program Grant Recipient (conference travel expenses) **
- 2015: Competitive Edge Doctoral Summer Bridge Program Fellowship, UCLA (\$6,000) **
- 2015: Student Member, ASLO Board of Directors (Term: 2015-2018)
- 2015: Peer Mentor, UC-HBCU Initiative Summer Program (\$3,000) **
- 2014: ASLO Multicultural Program Grant Recipient (conference travel expenses) **
- 2014: CHBGS/ProQuest Distinguished Master's Thesis Award (\$500)
- 2013: UC-HBCU Initiative Summer Fellowship Recipient (\$5,000) **
- 2013: ASLO Multicultural Program Grant Recipient (conference travel expenses) **
- 2012: Living Marine Resources Cooperative Science Fellowship Recipient (\$10,000) **
- 2010: Woman of Achievement Award, Winthrop University
- 2009: Excellence in Leadership Award, Winthrop University