



SAMANTHA-LYNN MARTINEZ

Undergraduate student pursuing Biology, Marine Ecology/Conservation, Science Communication, and the Arts

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EDUCATION BACKGROUND

UNIVERSITY OF WASHINGTON (2021 - 2025)

Intended BS in Biology (Evolution, Ecology, and Conservation) and Marine Biology

- Interdisciplinary Honors Program Lead Peer Educator
- Media and PR chair for SeaDawgs RSO for Marine Science

INGRAHAM INTERNATIONAL HIGH SCHOOL (2017 - 2021)

International Baccalaureate (IB) Diploma Recipient

- Edward S. Ingraham Award Recipient
- World Languages Departmental Scholar
- National Honor Society President
- Asian Student Union Media Representative

AWARDS/HONORS

Nancy Wilcox Awardee (2023), Edward S Ingraham Awardee (2021), Interdisciplinary Honors (2021-2025)

WORK, RESEARCH, AND VOLUNTEER EXPERIENCE

NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (JUNE - AUG 2023)

National Marine Mammal Laboratory/Alaska Fisheries Field and Manual Review Intern

- Conducted manual reviews of over 3000+ remote camera images of Steller Sea Lion rookeries and haulouts
- Worked on research vessel conditions for over 340+ hours with tasks ranging from scientific work to vessel operations
 - **Scientific work:** prepared camera equipment, veterinary supplies, and data entry tools
 - **Vessel operations:** skiff launches and retrievals, loading/unloading skiff cargo, and debris monitoring
- Experienced in marine mammal handling (specifically Steller Sea Lion pups) during routine health assessments and tracking/surveying efforts
- Captured images with long-lens DSLR from over 10 different haulout sites along the Aleutian Island chain

UW SCHOOL OF AQUATIC AND FISHERY SCIENCES (SAFS) (2022 - PRESENT)

Undergraduate Liaison for Students Exploring Aquatic Sciences (SEAS)

- Collaborated with a team of graduate students and faculty from the School of Aquatic and Fishery Sciences (SAFS) to establish outreach goals and assessments of SEAS programming efficacy in partner schools and programs
- Provided the board with an undergraduate perspective on programming and approaches better improve inclusive resources and opportunities for our outreach plans
- Coordinated open house events and field trips to the UW SAFS campus for prospective students from local schools
- Developed lesson plans related to fishery science concepts, like genetics and fishery stock assessments, for 6-12 classrooms in the Greater Seattle Area

UW BEHAVIORAL ECOPHYSICS LAB (2022 - PRESENT)

Undergraduate Research Assistant

- Analyzed video data of hummingbird behavior and movement with a computer-learning program, with the intention of determining the ethics of deploying radio-telemeters to study animal movement
- Photographed hummingbirds from the spread-wing collection at the Burke to detect color-signaling invisible to the human eye
- Cross-collaborated with graduate students and lab leads to organize assistant tasks

SKILLS

MARINE SCIENCE & ECOLOGY RESEARCH

- Underwater ROV and Aerial Drone Piloting
- Niskin Bottle Sampling, Plankton Tows, Outreach

CAMERA & VIDEO

- Editing and Cinematography
- Wildlife, Landscape, and Research Photography

GRAPHIC/PRINT DESIGN AND ILLUSTRATION

- Social Media and Campaign Coordination
- Content Creation involving the above mediums

VIEW PORTFOLIOS AT:

Samanthalynnmartinez.com



MADE IN PUGET SOUND (2020 - PRESENT)

Senior Scientific Advisor & Stream Team Manager

- Facilitated real-time marine science interpretation and diver-audience interactions via streams to YouTube
- Managed an intimate crew of 7 aboard vessels during dive trips and coordinated crew rotations between seasons
- Responsible for transportation, operation, and upkeep of camera and streaming gear, including underwater housings, aerial/underwater drone systems, and topside camera rigs
- Managed livestream elements and technology via OBS and YouTube Live

PERSONAL DESIGN BUSINESS (2020 - PRESENT)

Freelance Graphic Designer and Illustrator

- Designed print, digital, and animated graphics for over 50+ clients
- Previous project clients include Cotopaxi, UW Data Science, UW Astronomy, #YouTubeNewWave, Creator Camp, Kirsten Neuschäfer (Winner of the Golden Globe Race 2022), Seattle Aquarium, and more
- Proficient in Adobe Illustrator and InDesign

THE SALISH SEA SCHOOL AND PACIFIC MAMMAL RESEARCH (2020 - PRESENT)

Lesson/Diagram Graphic Designer, Media Manager, & Education Assistant

- Designed series of 20+ Diagrams and 50+ Infographics used for marine science education material for K-12 classrooms and Social Media outreach
- Taught on boat-based and shore-based experiential learning programs for students 6th grade and older
- Assist in Photo-ID and behavioral survey efforts of local harbor seal and harbor porpoise populations of Anacortes, WA

SUSTAINABILITY AMBASSADORS* (2020 - 2022)

Communications Fellow & Leadership Coordinator

- Created graphic and video content to populate the organization's social channels and meet 2 partner content-creation contract needs
- Mentored 70+ Middle/High School students in environmental advocacy and education video and graphic media production
- Planned and facilitated 12 Problem-Based-Learning labs for students, teachers, and professional development coaches year-round
- Developed and Formatted 18 NGSS-compliant lesson plans and classroom material for environmental and sustainability-themed curricula

SEATTLE AQUARIUM (2017 - 2021)

Marine Science Interpreter, Youth Programming Representative, Leadership-Pod

- Engaged with aquarium guests at habitat spaces and presentations, represented program at government and outreach events
- Acquired skills in marine biology/oceanography research and outreach with dissections, plankton tows, water sample analyses, public speaking/presenting, etc.
- Mentored newcomers into the youth program as an "L-Pod" member, a position among a select group of experienced program volunteers utilized in newcomer training, advanced guest interaction, and lab skill certifications

Social Media Campaign Admin & Content Creator

- Created and moderated Puget Sound conservation-themed content for the social media campaign "[Puget Sound: We Love You](#)"
- Developed special event programming to bring ocean conservation into a virtual (and more accessible realm) via videos, photos, illustrations, writings, etc.



RECENT SCIENCE COMMUNICATION, FEATURES, AND PUBLICATIONS

SYLVESTER MIDDLE SCHOOL (May 2023)

Featured Speaker on College Readiness Day

- Shared my academic background and pathway with four 8th-grade classrooms ranging from arts, history, science, and literature disciplines.

HIHO KIDS: KIDS MEET A MARINE BIOLOGIST (February 2023)

Host on educational children's episode in collaboration with HiHo Kids, Da Vinci Kids, and CUT

- Hosted my own episode of the popular YouTube Kids and Da Vinci Kids series "Kids Meet"
- Utilized natural history collection specimens to help children explore the fascinating world of fish biodiversity
- Film onsite in collaboration with the CUT studio production team and managed prop adaptations and safe handling procedures along the way
- Shared among an audience of 5.24+ million subscribers with 546k+ episode views as of August 2023

SCATTRLAB EPISODE ONE: HOW DO FISH HEAR? (AUTUMN 2022)

Educational video, lesson plan, and activities in collaboration with UW School of Aquatic and Fishery Sciences, UW Interdisciplinary Honors Program, and the Burke Museum of Natural History and Culture

- Produced a 14.5-minute video with animations, live-action, and scientific figures featuring the basics to the bizarre of fish hearing anatomy.
- Developed and designed complementary assignment questions for higher-level/college-level students to test their skills in analyzing scientific figures and interpreting data.
- Designed complementary learning activities and worksheets of varying levels, from elementary to high school, relating to fish hearing anatomy, otolith structure, and phylogenetic relationships

KIRO 7 NEWS: SEATTLE AQUARIUM INSPIRES THE YOUNGER GENERATION (JULY 2021)

Featured Guest on Kiro 7 segment about the Youth Ocean Advocate Program

SEATTLE AQUARIUM: OCEAN CAREER SERIES (MAY 2021)

Moderator of the four-part livestream series for youth interested in pursuing marine sciences

- Moderated four panels featuring a set of four rotating aquarium staff members each week, maintaining panel flow and timing while directing questions to appropriate recipients
- Collaborated in Pre and Post-Show meetings with panel guests and aquarium PR organization.