

# S. VALERY AVILA MOSQUEDA

## ABOUT ME

I am a passionate and enthusiastic person about the ocean. I studied two bachelor's simultaneously about coasts and oceans and I specialized in ecology and remote sensing of tropical seagrasses for my master's degree.

I have a conservation project about seagrass meadows called "Raíces Marinas" in which I teach about the importance of seagrasses through outreach and citizen science.



## CONTACT

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- [RAICES MARINAS PAGE](#)
- [RESEARCHGATE PROFILE](#)



## EDUCATION

MSc. in Marine Sciences and  
Limnology (UNAM) class of 2021

BSc. in Sustainable Coastal Zone **SOLVING AND MONITORING** Management (UNAM) class of 2018 **PUBLIC SPEAKING**  
**USE OF UAV'S**

BSc. in Marine Biology (UADY)  
class of 2018

## HABILITIES

### LEADERSHIP

- **RAPID LEARNING**
- **CREATIVE PROBLEM**
- **SOLVING AND MONITORING**

- **ANALYTICAL THINKING**
- **DECISIVENESS**

## SPECIALTIES

### DIVE MASTER-PADI

- **SCIENTIFIC DIVING-CMAS**
- **TROPICAL SEAGRASS RESEARCH**

### TECHNICS

- **REMOTE SENSING ANALYSIS**

## WORK EXPERIENCE

### RAICES MARINAS

At the end of 2022 Raíces Marinas won a grant funded by Community and Biodiversity A.C. and the German Agency for Sustainable Development Cooperation (GIZ) to start my project idea. With a colleague, we consolidate "Raíces Marinas". I'm the leader of a group that was born from the need to visiblize the seagrasses in the Caribbean. Our mission is developing and collaborating in high-impact projects for the seagrass meadows and the communities.

Project achievements:

- 20 trained persons on basic knowlege about seagrass meadows, throught workshops and field practices.
- Seagrass seminar in the framework of the world seagrass day, march 1st.
- A technical report of the project including new cartography of the seagrass meadows base on citizen science.
- A Short video about of the project.
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## RESEARCH

- Field and laboratory technician at: Seagrass Laboratory UNAM, Puerto Morelos: Seagrass restoration, drone survey, seagrass monitoring, water quality monitoring, blue carbon monitoring 2021- Present
- Field and laboratory assistant at: Oceanographic and Meteorological Academic Service (SAMMO), UNAM, Puerto Morelos: Drone survey, oceanographic equipment installation, fieldwork planning campaigns, analysis of satellite and drone images. 2022- Present
- Marine biologist consultant: Centro de Ingeniería y Desarrollo Industrial (CIDESI), Centro Regional de Investigación Acuícola y Pesquera (CRIAP- Puerto Morelos)



## PUBLICATIONS

- Chris J Chandler \*, **Silvia Valery A Mosqueda**, Evelyn Raquel Salas, Eden Magaña Gallegos, Betsabé De la Barrera-Bautista, Doreen S Boyd, Sarah Metcalfe, Sofie Sjoersten, Brigitta Van Tussenbroek, Rodolfo Silva, Giles M Foody. Spectral characteristics of beached Sargassum in response to drying and decay over time (submitted) Remote Sensing.
- Isis Gabriela Martínez López, Luuk Leemans, Marieke M. van Katwijk, **S. Valery Ávila-Mosqueda**, Brigitta I. van Tussenbroek. Coralline algal explosion in an overgrazed seagrass meadow: Conditional outcomes of intra- and interspecific interactions” (submitted). Ecosystems
- de Almeida LR, **Ávila-Mosqueda SV**, Silva R, Mendoza E and van Tussenbroek BI (2022) Mapping the structure of mixed seagrass meadows in the Mexican Caribbean. Front. Mar. Sci. 9:1063007. doi: 10.3389/fmars.2022.1063007
- Ortegón-Aznar, I., & **Ávila-Mosqueda, S. V.**(2020). Arribazón de sargazo en la península de Yucatán: ¿Problema local, regional o mundial?. Bioagrociencias, 13(2).

## TEACHING

- Guest professor: Scientific diving teacher course CMAS (Basics of seagrass ecology and monitoring)
- Guest professor: Marine Biology specialty course CMAS (Seagrass monitoring)
- Main professor: Online and practical workshops in the project "Making visible the seagrass meadows of the Mexican Caribbean"



## CONSERVATION

- Project In Progress (Jun-dec 2023): Coordinator of the Program for the Protection and Restoration of Ecosystems and Priority Species (PROREST) for monitoring and surveillance of the seagrass meadows inside the National Park, Reefs of Puerto Morelos.



## CONFERENCES AND EVENTS

- Junio 2023-Conference "Ocean Gardens: The Functions of seagrasses" for the festival "Sea of Change" organized by the Association, Nuestros Mares.
- Conference "Seagrasses, invisible treasures" for the Oceans Festival organized by the dive center Be diving.

