

## EXPERT'S PROFILE

**Name of Grantee** : Jayvee A. Saco, PhD  
**Area of Expertise** : Ecophysiology, Culture,  
Cell Biology and Taxonomy of Seaweeds  
**Inclusive Date of Contract  
as BSP Awardee** : January 2020 – December 2021  
(Long-Term engagement)  
**Host Institution** : Batangas State University  
**E-mail Address** : jayvee.saco@gmail.com



### EDUCATIONAL BACKGROUND

- PhD Cell Biology, Kochi University, Kochi, Japan, 2017
- M. Sc. Marine Science, University of the Philippines Diliman, Philippines, 2014
- B. Sc. Biology, Pamantasan ng Lungsod ng Maynila, Philippines, 2005

### PROFESSIONAL EXPERIENCES

#### **Center Head** (2018-present)

Verde Island Passage Center of Oceanographic  
Research and Aquatic Life Sciences (VIP CORALS) and

#### **Assistant Professor** (2018-present)

College of Arts and Sciences  
Batangas State University

#### **Senior Research Assistant** (2013-2014)

Marine Science Institute, University of the Philippines, Diliman, Quezon City

#### **University Research Associate** (2009 – 2013)

Marine Science Institute, University of the Philippines, Diliman, Quezon City

#### **To Be Accomplished as a BSP Awardee** (Deliverables):

- Assessment of different *Ulva* spp. In selected tourist spot and resorts in the Batangas province
- Documentation of different *Ulva* spp. collected from the assessment activity
- Isolation of different stains of *Ulva* spp for unialgal culture for experimentation
- Growth rate analysis of the different unialgal culture of *Ulva* spp. under the different physiochemical parameters
- Photosynthetic profiling of different unialgal culture of *Ulva* spp. using light absorption spectra, oxygen evolution techniques and PAM fluorometry

- Determine the relationship of the distribution, growth rate, and photosynthetic characteristics of *Ulva* spp. collected from Batangas province in relation to their implication to possible green-tide blooms
- Conduct training and seminars as follows:
  - a) Lecture series on green tide blooms in the Philippines and its implication to the coastal ecosystem
  - b) Training/Workshop on unialgal culture technology of *Ulva* spp. for commercial production and industrial application
- Mentor graduate students from Master of Science in Marine Biology