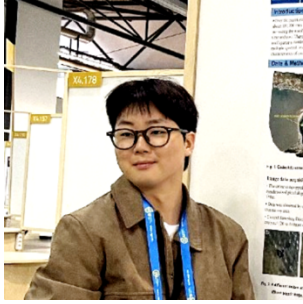


## Youchul Jeong



Youchul Jeong is a PhD candidate in the Department of Marine Science at the University of the Aegean. He holds a Bachelor's and a Master of Science in Oceanography from Pusan National University. His master's thesis focused on classifying and monitoring floating marine macro-litter using multispectral sensors and deep learning algorithms. He has extensive experience in environmental monitoring using UAVs, including beach safety evaluations, assessments of spotted seal populations, and mapping of coastal topography.

His PhD research, titled "Floating Marine Debris Detection Using Satellite and UAV Images," focuses on developing a multi-scale detection framework by integrating multi-sensor satellite data with UAV imagery. This research aims to optimize deep learning models through spectral profiling and enhance robustness against environmental noise via advanced feature fusion strategies.

His research interests include remote sensing, image processing, deep learning applications for object detection, and atmospheric correction methods. He is proficient in technical data processing using MATLAB, Python, and ENVI, and he holds the highest-level South Korean UAV license for operating heavy-lift drones. His collaborative work in remote sensing and marine monitoring has resulted in numerous peer-reviewed journal publications and presentations at international conferences.