



Seeing Better in Space

FORT PIERCE, FL (March 28, 2018) – A two year, \$300k collaborative project between Harbor Branch Oceanographic Institute and Navy Space and Naval Warfare Systems



Command will provide funding to create an imaging system for CubeSats, a type of low-cost miniaturized satellite for space research that is made

up of multiples of 10×10×10 cm cubic units. They have drawn significant interest from the National Aeronautics and Space Administration and the U.S. Department of Defense as the future platform for earth observation and other space-borne surveillance missions.

Michael Twardowski, Ph.D., and Bing Ouyang, Ph.D., will tackle the two primary objectives for the project: 1) Lay the foundation to develop a compact and high-sensitivity hyper-spectral sensors suitable for the CubeSat and 2) Develop the concept of synthetic aperture imaging using a constellation of CubeSat to realize a “virtual lens” that is significantly larger than one can achieve with a single sensor.

This project is expected to lead to substantially more investment from the Navy for a long-term program in developing robust CubeSat imaging sensors.