

Nathan T. Hui

9500 Gilman Dr MC0404, La Jolla, CA 92093
nthui@ucsd.edu, 858.534.9306

Related Research Experience	<i>UC San Diego - Research Engineer</i> <ul style="list-style-type: none">• Developed and tested a multicamera photogrammetry rig for shallow water demonstration of underwater photogrammetry.• Planned and supervised scientific dives to evaluate underwater lighting models for underwater photogrammetry.• Conducted test dives to evaluate the performance and operation of an underwater camera fitted with a laser for fish length detection.• Supervised the development, testing, and production of citizen science systems to survey fish lengths using underwater cameras and machine learning.• Supervised and executed field-testing of prototype sensor packages.• Supported at-sea recording and measurement of fish with the California Cooperative Fisheries Research Program using non-invasive photogrammetric techniques.	January 2014 - current
Relevant Publications	E. Wong, I. Humphrey, S. Switzer, C. Crutchfield, N. Hui, C. Schurgers, and R. Kastner, "Underwater depth calibration using a commercial depth camera," 2022. http://dx.doi.org/10.1145/3567600.3568158	
Relevant Diving Qualifications	<i>AAUS Scientific Diving</i> <ul style="list-style-type: none">• 30 fsw authorization• 26 dives• 17 accumulated hours of bottom time• 26 fsw mean depth	Sept 2022 - current
Education	<i>Masters of Science</i> , Electrical Engineering (Intelligent Systems, Robotics, and Controls) UC San Diego, San Diego, CA, March 30 2017 to September 7 2019 GPA: 3.005 / 4.000 Major GPA: 3.141 <i>Bachelor of Science</i> , Electrical Engineering UC San Diego, San Diego, CA, September 24 2012 to March 25 2017 GPA: 3.092 / 4.000 Major GPA: 3.106	