

## Nathan T. Hui

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