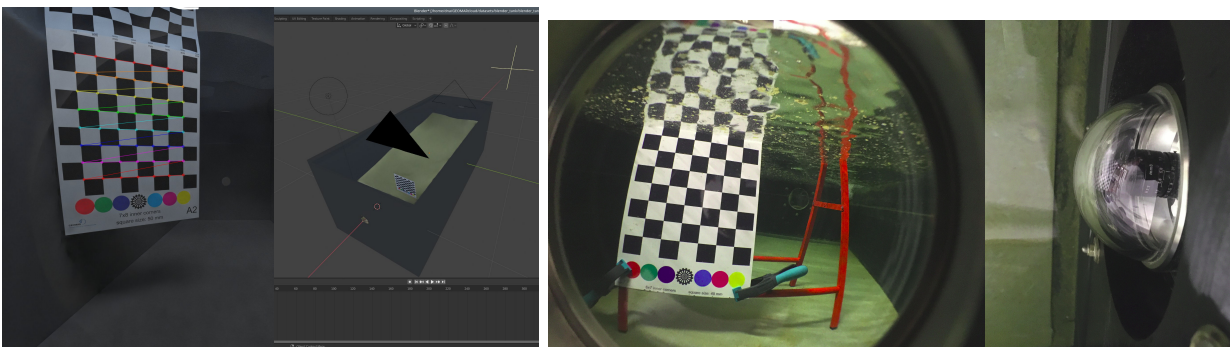


The Oceanic Machine Vision Group at the GEOMAR works on the topic of optical underwater surveys employing artificial intelligence and classical computer vision approaches and offers the position of a

– Student Research Assistant –
for conducting
Optical Experiments in a Water Tank



Experiment in Virtual Water Tank / Digital Twin

Experiment in Water Tank

We operate a test-water tank as well as its digital twin, which enables us to record underwater-imagery under controlled conditions. We search for a student research assistant, who maintains this system and conducts optical underwater experiments. The work will consist of an interesting mixture of

- mechanical tasks, to build actual experimental setups,
- measuring tasks, to ensure precise experiments,
- setup of camera-light systems,
- digital modeling of the experiments,
- as well as as programming tasks for post-processing.

The actual importance of the particular task can be adapted to the interests of the candidate.

Prerequisites: Python and/or, C++, ideally interested in 3D scene geometry in combination with a “hands-on attitude” in mechanical questions

Contact: Dr. Kevin Köser kkoeser@geomar.de
Dr. David Nakath dnakath@geomar.de
Oceanic Machine Vision
GEOMAR Helmholtz Centre for Ocean Research Kiel

<https://www.geomar.de/en/omv-jobs>

