



## Origami-Inspired Underwater Trap to Study Marine Creatures

Researchers have developed an origami-inspired sampler, named Rotary Actuated Dodecahedron (RAD) that uses folding polyhedral sides that can trap deep-sea soft creatures without causing them any harm.

### Key Highlights

- Studying soft-bodied deep sea creatures like jellyfish and squid has been a difficult task for marine biologists as existing underwater tools cause damage or even kill them.
- Origami, the Japanese art of folding, was used as an inspiration to develop Rotary Actuated Dodecahedron (RAD).
- It can be attached to any remotely operated vehicle (ROV) that uses cameras to position the sampler near a sea creature of interest and to entrap it.
- The device can be modified to withstand higher pressures at increasing depths in the ocean.

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