PORTFOLIO

Selected Projects · 2026

DANIEL M. VOGT

Robotics Program Lead · Hardware for Extreme Environments

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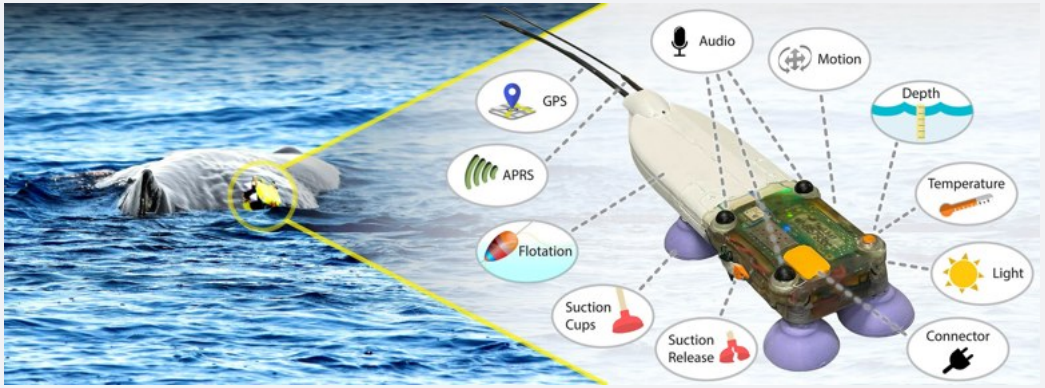
Photo: Kellon Spencer / Project CETI

PROJECT CETI · HARVARD SEAS

Bio-Logging Whale Tags

Field-proven bio-logging tags that record synchronized audio, depth, GPS, and IMU data on free-swimming sperm whales at ocean depths to 1,000 m. I led the full hardware lifecycle — concept, design reviews, fabrication, and harsh-environment field deployment — setting the test and reliability protocols the program runs on.



Tens of units built · ~10 international expeditions · 2020–present

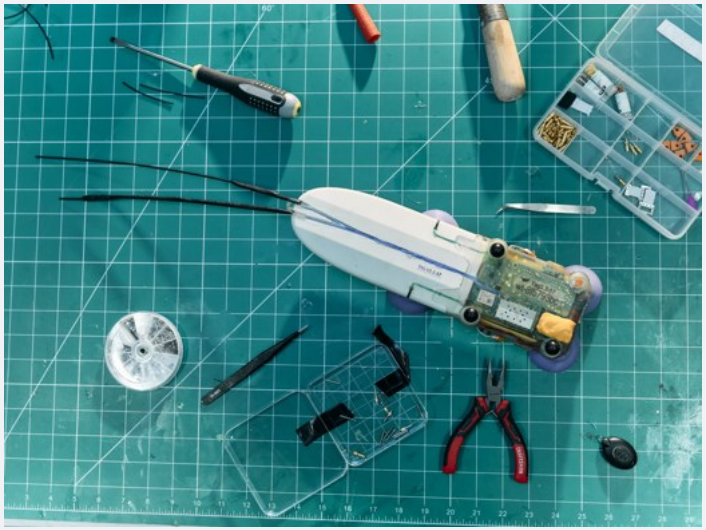


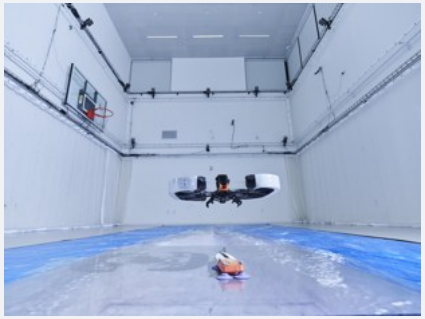
Photo: Jaime Rojo

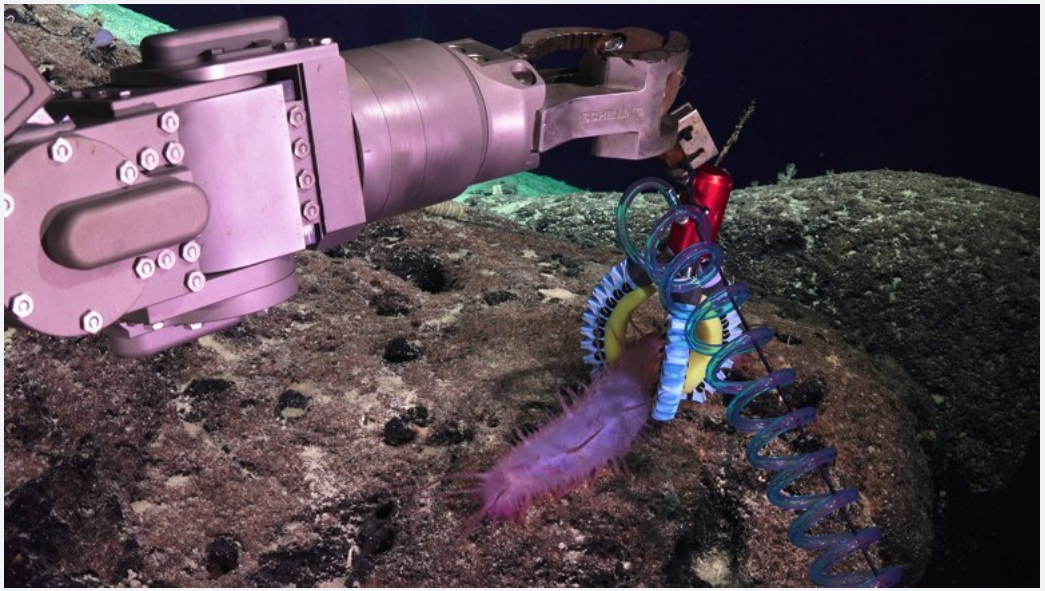
PROJECT CETI · HARVARD SEAS

Drone “Tap-and-Go” Tag Deployment

Co-invented a drone-based “tap-and-go” method for gently placing bio-logging tags on surfacing whales, cutting deployment time and animal disturbance compared with traditional pole tagging.

PLoS One, 2025 · Featured in The New York Times



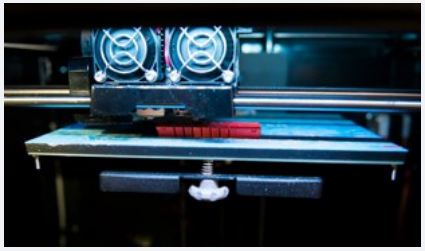


WYSS INSTITUTE · HARVARD

Soft Manipulators for Deep-Sea Robotics

Shipboard-designed, custom 3D-printed soft robotic fingers that grasp fragile deep-sea organisms without harming them — a soft solution to a hard underwater problem, deployed from research vessels on ROVs.

PLoS One, 2018 · Featured on the cover of ROV Planet

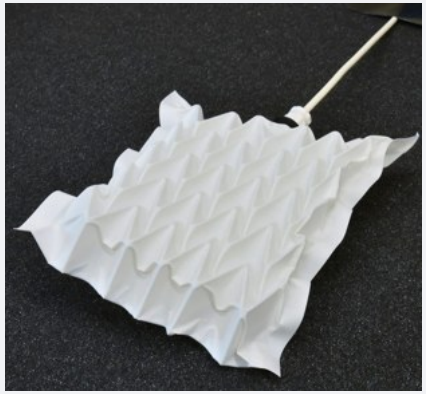


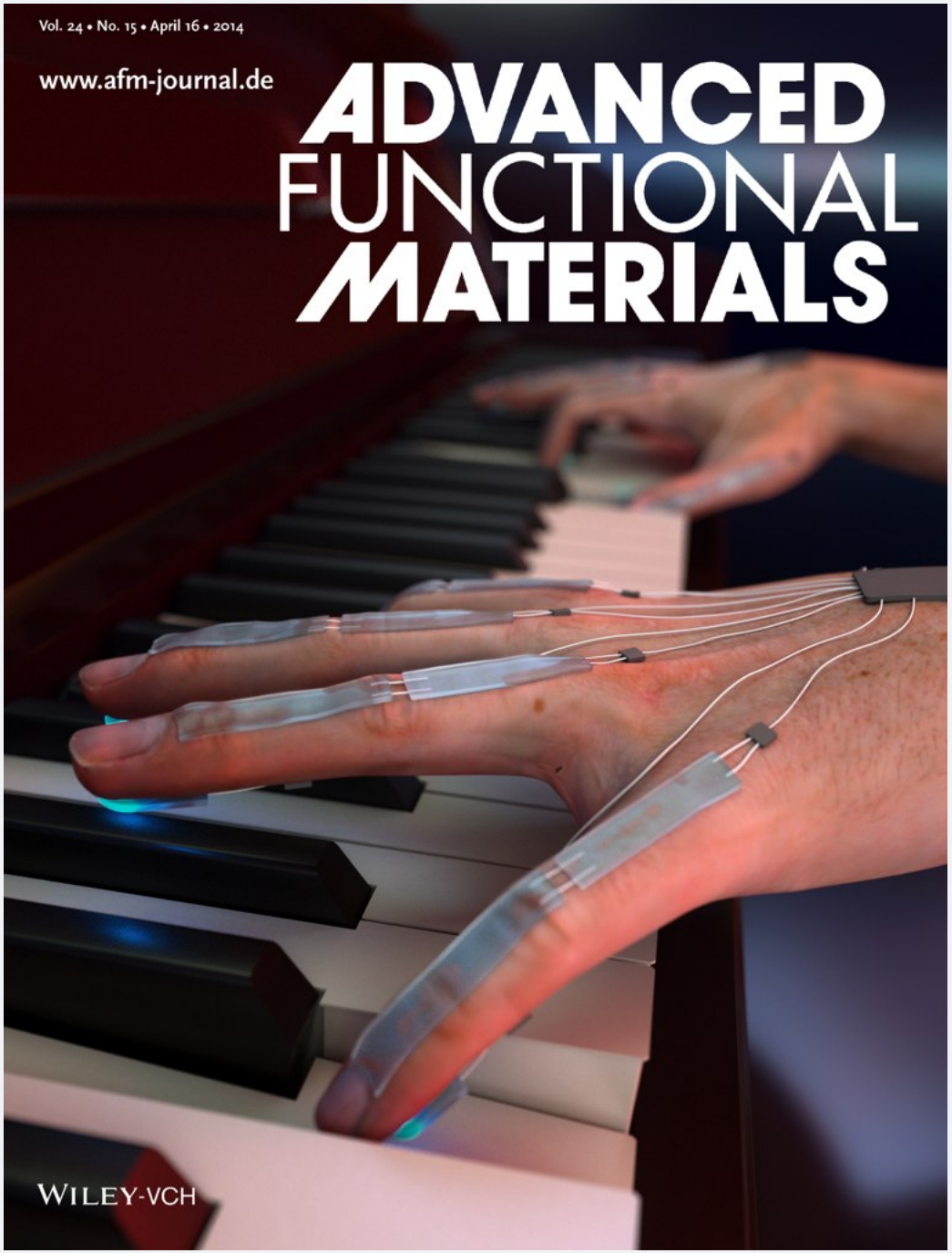
WYSS INSTITUTE · MIT · HARVARD

Origami-Inspired Artificial Muscles

Soft yet strong actuators built from a folded skeleton sealed in a flexible skin and driven by pressure difference — programmable through the skeleton's geometry, scalable, and buildable for under $1. They lift many times their own weight.

Proceedings of the National Academy of Sciences (PNAS), 2017



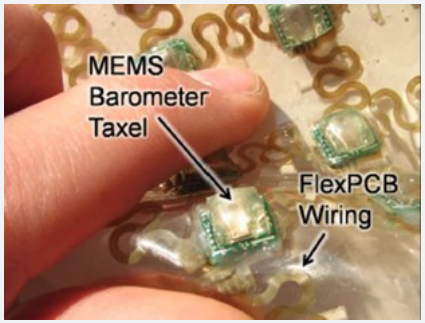


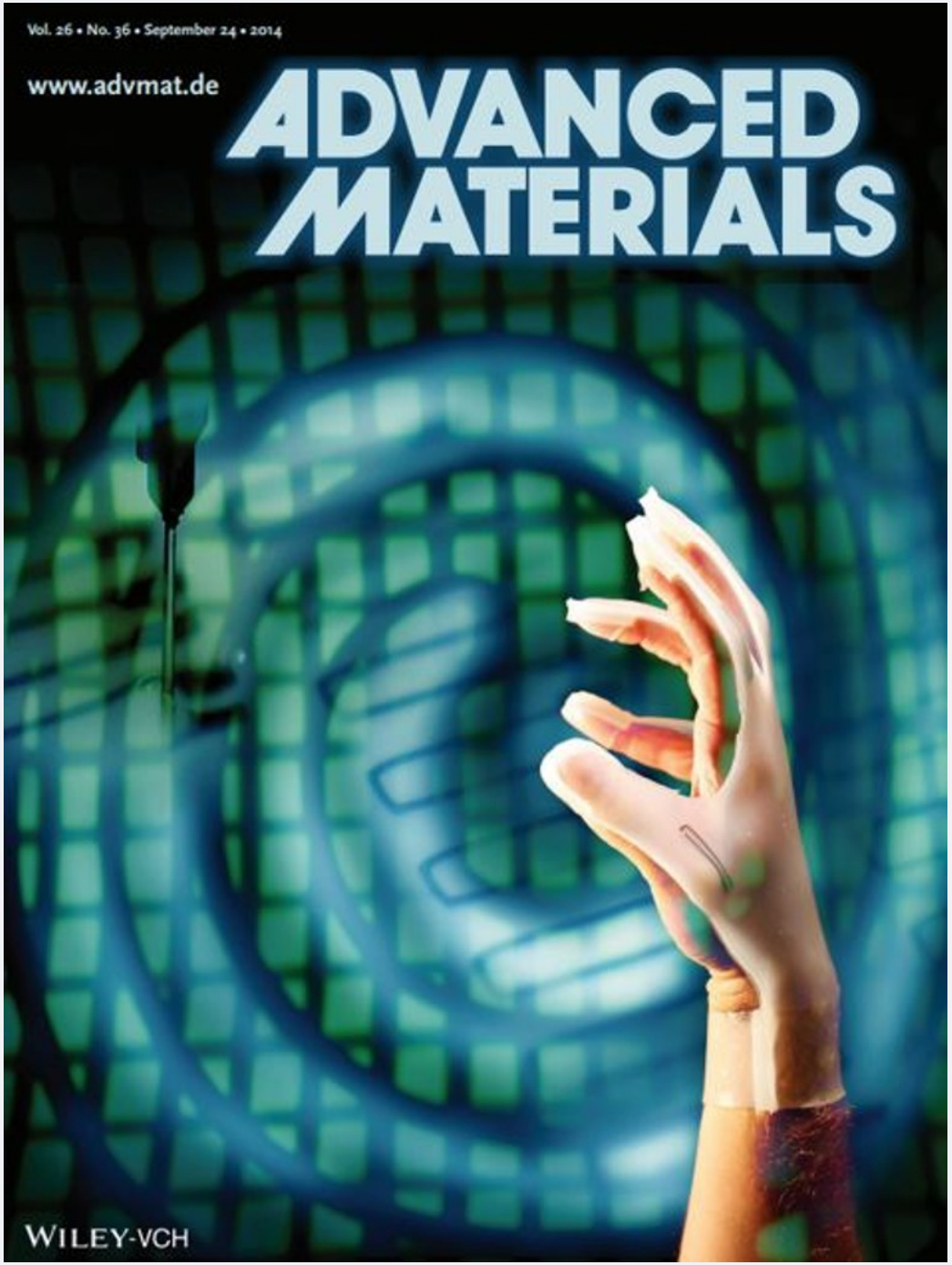
WYSS INSTITUTE · HARVARD

Soft Sensing & Wearable Electronics

Stretchable elastomer-and-liquid sensors that give soft robots proprioceptive feedback and enable low-profile, water-resistant wearables for human motion tracking — joint angle, gait, and full-body sensor suits. This soft-sensing IP was licensed to a major consumer-electronics company.

Cover, Advanced Functional Materials · Licensed IP





WYSS INSTITUTE · HARVARD

Additive Manufacturing of Soft Matter

Embedded 3D printing (E3DP) and FDM methods to fabricate highly stretchable soft sensors and actuators in a single step, enabling conformal, free-form soft devices — from tactile skins to multi-material soft grippers.

Cover, Advanced Materials