

Paolo Marra-Biggs

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PaoloMB@Hawaii.edu

Education

B.Sc in Marine Biology, **University of California: Santa Cruz**

Class of 2014

M. Sc in Marine Biology, **University of Hawai'i at Mānoa**

Degree in Progress

Undergraduate Research

University of California: Santa Cruz (UCSC)

Site fidelity study of intertidal goby species *Caffergobius caffer*

Betty's Bay, South Africa

Drifting rates of detached giant kelp *Macrocystis pyrifera*

Hopkins Marine Life Refuge, CA

California State University: Monterey Bay (CSUMB)

Long term coral monitoring study across National Parks

Malay Peninsula

Skills & Certifications

SCUBA Certifications

PADI Divemaster (Padi # 307113)

PADI Rescue /Advanced

NAUI Master Diver / Open Water

AAUS Scientific Diver 70'

National Park Service Blue Card Certified 100'

600 logged SCUBA dives, 150+ Drysuit Dives
SCUBA survey experience in cold waters (300 dives)

Boating Experience

MOCC Certified

Small Vessel Operator (<40ft) (300+ Hours logged)

-Current CPR, O2 Administration & First Aid Certified

-Wilderness First Responder

-ArcGIS, Microsoft Office, Access proficient

-Data entry, analysis & report preparation

-Proficient with identifying South Pacific Corals, Fish, Inverts

-Proficient with classifying NE Pacific Algae, Fish, Inverts

Employment

NOAA National Marine Sanctuary of American Samoa

March - April 2019

Outboard Engine Mechanic

Supervisor: Hanae Spathias (684 633 6503) (May be contacted)

- Diagnosed and repaired Evinrude E-Tec outboard engines
- Small boat operations to test repairs
- Trailer operation and repair

National Geographic / Lindblad Expeditions

June 2017 - Present

Undersea Specialist, Naturalist Tour Guide

Supervisor: Ashley Knight (206 403 1543) (May be contacted)

- Drysuit SCUBA diving in polar and temperate regions
- SCUBA regulator, drysuit, and ROV repair
- Collect video footage of wildlife using
- Create and edited undersea footage for guest lectures
- Drive zodiac tours and shoreside expeditions
- Create natural history presentations

National Park Service of American Samoa

April 2015 – February 2018

Marine Field Technician, Research SCUBA Diver

Supervisor: Tim Clark (808 792 9566) (Timothy_Clark@FWS.gov) (May be contacted)

- Managing dive team and conducting safe and efficient data collection dives
- Performing dive operations off of boats under various conditions (heat, rain, chop, current, long days and nights)
- Operating boat trailers and small vessels (33 ft Swiftcat, 24 ft Boston Whaler, 23 ft Zodiac Hurricane)
- Data management using Microsoft Access, ArcGIS, and DNR GPS to communicate data
- Grant writing for National Park Service Projects
- Extensive repairing and maintaining of boat, truck and SCUBA gear. regularly fill Nitrox tanks.
- Installing and operated sensor instruments for monitoring projects (ADCP's, CDT's, SONDE, Niskin Bottles)
- Collecting stream Inventory & Monitoring data
- Coral bleaching and crown of thorn monitoring surveys
- Data analysis (spatial and statistical) for technical reports
- Using Microsoft Access to manage, query, and graph data for technical reports
- Composing outreach & education programs for local students

Marine Science Technician

Supervisor: Matthew Widlansky (808 956 2822) (May be contacted)

- Retrieved/deployed temperature loggers
- Conducted coral bleaching photo surveys
- Downloaded data using instrument specific software, entering data into database

UCSB: SONGS Mitigation and Monitoring

May - Nov 2014

Marine Field Technician, Research SCUBA Diver

Supervisor: David Huang (706 310 0828) (May be contacted)

- Conducted underwater scientific research for long term Mitigation and Monitoring project.
- Performed Scientific methods on SCUBA: Quadrat, RPC, UPC, Algae/Invert swath, Fish Surveys
- Conducted biological surveys of artificial and natural reefs
- Operating dive boats (26ft Radon)
- Performed SCUBA dive operations off of boats in poor visibility (<3 ft)
- Fabricated scientific instrument using lathe, drill press, table saw, planar, band saw, milling machine
- Processing, sorting, and classifying samples collected in situ
- Data Entry, QA/QC

Kayak Connection – Santa Cruz / Moss Landing

June 2010 – May 2014

Kayak Instructor/ Naturalist Tour Guide

Supervisor: Dave Grigsby (831 454 6999) (May be contacted)

- Guided 300+ naturalist tours in Monterey Bay
- Instructed Kayak and Stand up paddleboard classes in the Monterey Bay
- Managed relations with sponsors, dealers and event managers
- Worked retail selling kayaks, stand up paddleboards and accessories

Professional Research Experience

NOAA Marine Sanctuaries and Bishop Museum Rebreather Divers

February 2017

Safety Support Diver

Supervisor: Joe Paulin (684 633 6500) (May be contacted)

- Provide safety support on decompression stops on SCUBA
- Cross-training for emergency procedures and diver egresses

Department of Marine and Wildlife Resources

December 2015 – Jan 2017

Assistant Researcher

Supervisor: Mareike Sudek (684 252 1327) (May be contacted)

- Designing and implementing coral bleaching surveys
- Conducting coral monitoring surveys
- Maintaining and Repairing SCUBA gear
- Data Entry, QA/QC

PISCO (Partnership for Interdisciplinary Studies of Coastal Oceans)

Sept 2013 – March 2014

Research SCUBA Diver, Data Technician

Supervisor: Peter Raimondi (831 459 5674) (May be contacted)

- Kelp forest rugosity, sediment and habitat surveys
- Collected data on algae, invert populations on SCUBA
- Data Entry and database management
- Mapped features using ArcGIS

Monterey Bay Aquarium

June 2009 – Sept 2009

Student Docent

- Managed and maintained touch tanks
- Operated marine mammal information booths
- Supervised sustainable fishing department booths
- Informed public of current environmental hazards

Name	Employer	Title	Phone	Email
Tim Clark	NPS (Formerly) / USFWS	PhD Marine Ecologist	(808) 792-9566	Timothy_Clark@FWS.gov
Mareike Sudek	NOAA: NMSAS	Project Coordinator	+351 912 980 982	Mareike.Sudek@NOAA.gov
David Huang	UCSB:SONGS	Research Associate	(706) 310-0828	David.Huang@LifeSci.UCSB.edu
Peter Raimondi	UCSC; PISCO	PI, Professor	(831) 459-5674	Raimondi@UCSC.edu
David Grigsby	Kayak Connection	Owner	(831) 454-6999	Dave@KayakConnection.co