

Clinton B. Edwards

Staff Research Biologist, Scripps Institution of Oceanography
University of California, San Diego
9500 Gilman Drive, La Jolla, CA 92093-0202
Phone: 858-705-4077
Email: clint@ucsd.edu

Education

- 2013 M.Sc. Biology, University of California, San Diego
“Global Assessment of the Status of Coral Reef Herbivorous Fishes: Evidence for Fishing Effects”
Adviser: Dr. Jennifer Smith, Scripps Institution of Oceanography
- 2008 B.S. Ecology, Behavior Evolution; University of California, San Diego

Publications

- Smith, J., R. Brainard, A. Carter, S. Dugas, **C. Edwards**, J. Harris, L. Lewis, D. Obura, F. Rohwer, E. Sala, P. Vroom and S. Sandin. 2015. Re-evaluating the Health of Coral Reef Communities: Baselines & Evidence for Human Impacts across the Central Pacific. *Proceedings of the Royal Society B: Biological Sciences*. In press.
- Naughton, P., **C. Edwards**, V. Petrovic, R. Kastner, F. Keustner and S. Sandin. 2015. Scaling the Annotation of Subtidal Marine Habitats. *WUWNet'15*, October 22-24 2015, Washington DC, US
- Enochs, I. C., Enochs, D. P. Manzello, E. M. Donham, G. Kolodziej, R. Okano, L. Johnston, C. Young, J. Iguel, **C. Edwards**, M. D. Fox, L. Valentino, S. Johnson, D. Benavente, S. J. Clark, R. Carlton, T. Burton, Y. Eynaud and Price N.N. 2015. Shift from coral to macroalgae dominance on a volcanically acidified reef. *Nature Climate Change*. DOI: 10.1038/NCLIMATE275
- Edwards, C.**, A. Friedlander, A. Green, M. Hardt, E. Sala, H. Sweatman, I. Williams, B. Zgliczynski, S. Sandin and J. Smith. 2014. Global Assessment of the Status of Coral Reef Herbivorous Fishes: Evidence for Fishing Effects. *Proceedings of the Royal Society B: Biological Sciences*. 281 (1774): 20131835.
Times cited: 26

Professional & Research Experience

- 2013-Pres. Staff Research Biologist, Reefs of Tomorrow Initiative
Supervisor: Dr. Stuart Sandin, Scripps Institution of Oceanography
- 2015 Staff Research Biologist, Big Pixel Initiative
Supervisors: Dr. Stuart Sandin and Dr. Jennifer Smith, Scripps Institution of Oceanography
- 2011-2013 Student Research Assistant, Collaborative Analysis of Marine Ecosystems
Supervisors: Dr. Jennifer Smith, Scripps Institution of Oceanography
- 2012 Graduate Student Research, Small Scale and Artisanal Fisheries Research Network
Adviser: Dr. Jennifer Smith, Scripps Institution of Oceanography
- 2010-2011 Science Intern, Waitt Institute Marine Conservation Program
Supervisor: Jacob James, Director, Waitt Foundation, La Jolla, CA
- 2008-2009 Staff Research Assistant, Jetz Spatial Ecology Laboratory
Adviser: Dr. Walter Jetz, University of California, San Diego
- 2008 Undergraduate Student Research, Fish & Benthic Mapping
Adviser: Dr. Stuart Sandin, Scripps Institution of Oceanography
- 2007 Undergraduate Student Research, Drosophila Mating Selection
Adviser: Dr. Peter Adolfo, University of California, San Diego
- 2004-2008 Foredeck Boss and Delivery Captain, One-Design Sailboat Racing
Supervisor: Scott Nordeng, Ventura CA

- 2003 Undergraduate Student Research, Exploitation Effects on Intertidal Gastropods
Advisers: Dr. Phil Fenberg and Dr. Kaustuv Roy, University of California, San Diego
- 2002 Undergraduate Student Research, Rockfish (Sebastes) Habitat Utilization
Adviser: Dr. Sal Jorgenson, Bodega Bay Marine Laboratory, University of California, Davis
- 2002 Intensive Field Course, Ecology of Intertidal Plankton
Advisers: Dr. Vic Chow, Bodega Bay Marine Laboratory, University of California, Davis

Teaching and Mentoring Experience

- 2012-Pres. Volunteer Coordinator and Mentor, Coral Reef Benthic Image Analyses
Scripps Institution of Oceanography
- 2013 Teaching Assistant, Statistics, UN/WWF Redd+ Carbon Accounting
University of California, San Diego Extension and World Wildlife Federation
- 2013 Guest Teaching Assistant, Advanced Statistical Techniques
Scripps Institution of Oceanography
- 2012 Guest Lecturer, Marine Option Program
University of Hawaii, Maui campus
- 2011 Teaching Assistant, Invertebrate Ecology Laboratory
University of California, San Diego
- 2011 Guest Lecturer, Invertebrate Ecology Laboratory
University of California, San Diego
- 2009 Teaching Assistant, Biological Statistics
University of California, San Diego

Contributions to Scientific Conferences

- 2015 Invited talk, Virtual Reality Conference, Qualcomm Institute/UC San Diego
- 2014 Invited talk, Environmental Change Forum, Scripps Institution of Oceanography
- 2014 Contributed talk, Ecological Society of America, Sacramento, CA
- 2013 Poster presentation, Biological Research Showcase, University of California, San Diego
- 2012 Symposium presentation, Small Scale and Artisanal Fisheries Research Network
- 2012 Contributed talk, Western Society of Naturalists annual meeting, Seaside, CA
- 2012 Contributed talk, International Coral Reef Symposium, Cairns, AUS
- 2011 Poster presentation, Western Society of Naturalists annual meeting, San Diego, CA

Grants & Awards

- 2015 ***Big Pixel Initiative***; awarded \$15,000 to test feasibility of extracting remotely sensed data of anthropogenic impacts on remote coral reef locations
- 2014 ***Small Scale and Artisanal Fisheries Research Network, pilot study program***; awarded \$10,000 to conduct socio-economic field surveys in artisanal fishing communities in Maui, Hawaii

Field and Ship Based Research Experience

- 2015 Palmyra Atoll National Wildlife Refuge, Scripps Institution of Oceanography
21 days SCUBA based research and monitoring
- 2014 M/Y PalauSport, OneReef Foundation and Scripps Institution of Oceanography
6 days SCUBA based research and monitoring at Helen Reef and Palau

- 2014 R/V Hi'ialakai, National Oceanographic and Atmospheric Administration, Coral Reef Ecosystem Division
10 days SCUBA based research and monitoring at Maug Island, Commonwealth of the Northern Mariana Islands
- 2013 R/V Hi'ialakai National Oceanographic and Atmospheric Administration, Coral Reef Ecosystem Division
15 days SCUBA based research and monitoring in the Papahānaumokuākea National Monument, North Western Hawaiian Islands
- 2012 S/V SeaDragon, Pangea Explorations and Scripps Institution of Oceanography
21 days SCUBA based research and monitoring and ship's crew in the Northern Line Islands, Republic of Kiribati
- 2011 R/V Titan, Brazil - US Department of Education Exchange Program and Scripps Institution of Oceanography
6 days SCUBA based research and monitoring at the Parcel do Abrolhos, Brazil

Outreach & Other Activities

- 2015 Attendee, 'Building the Pacific Research Platform Workshop'
- 2015 Attendee, ESRI User Conference
- 2014 Finalist, National Geographic Expedition Granted contest; 3rd place finish
- 2014 Editorial Contributor, TheInertia.com
- 2014 Editorial Contributor, Purakai.com
- 2012-2015 Laboratory tours, Smith and Sandin laboratories, SIO
- 2012-2013 Student Volunteer, San Diego Oceans Sustainable Seafood Gala
- 2012-2013 Scripps Coastal Reserve; Volunteer tide pool monitoring & docent
- 2012 Student Docent, Scripps Community Outreach Program for Education (SCOPE)
- 2012 Lecture, American Language program, California State University Fullerton
- 2006-2008 Volunteer, 'Heart Walk' American Heart Association, Santa Barbara
- 2003-2006 Captain, UCSD Surf Team; National Scholastic Surfing Association overall team title and captain of the year award

Non Refereed Publications

Putnam, A.S., C. Edwards, P. Andolfatto. 2008. Influence of demography on detecting positive selection at *Drosophila melanogaster* female reproductive genes. PhD dissertation, University of California, San Diego

Whitty, T; H. Bassett, L. Bonito, A. Johnson, C. Edwards, C. Palaretti, T. Moniz, S. Sandin. 2013. Snapshot Assessment Protocol (SnAP): Guidelines, Tools, and Tips for Rapidly Characterizing Small-Scale Fisheries. UC San Diego: Center for Marine Biodiversity and Conservation. Retrieved from: <http://escholarship.org/uc/item/8gp7t4v8>

Professional Memberships

Ecological Society of America
International Society for Reef Studies
Small Scale and Artisanal Fisheries Research Network
Western Society of Naturalists

Skills and Certifications

Certified GIS operator, ArcGIS Desktop I, ESRI 2008
Proficiency in R project for Statistical Computing, SPSS, PhotoGrid, MS Access, MS Excel, MS Office Suite, ArcGIS, SQL, Adobe Creative Suite, Sigmaplot, Agisoft, EndNote, ISI Web of Knowledge

Extensive experience in literature reviews, data synthesis; database design, management and analysis
Extensive experience in underwater (SCUBA) field research (data collection, instrumentation deployment) at local and remote field locations
Expertise in tropical coral and algal taxonomy
Extensive experience conducting research and training students in California intertidal habitats
High level of proficiency speaking and writing in Spanish
400+ day's sea time as a boat owner and deckhand
2002 UC-registered small boat operator
PADI Open Water certification, 5/10
AAUS science Diver certification, 60' certification, 300+ dives, 2011-2015
NAUI Rescue and Advanced diver certification, 8/10
First AID/CPR/O2 certification, 11/14
25 years' experience sailing, fishing, kayaking and surfing in the Channel Islands

Relevant Coursework

Spatial Analysis in Ecology and Conservation (GIS based spatial ecology course) • Current Topics in Coral Reef Ecology • Quantitative Ecology and Conservation • Advanced Biostatistics • Marine Invertebrate Ecology Laboratory • Biological Oceanography • California Coastal Oceanography • Fisheries Oceanography • Evolutionary Biology of Fishes • Evolution • Population Genetics • Chemical Principles of Marine Systems • Ethnic Studies • Special topics in International Relations and Pacific studies (advanced GIS course)