

Curriculum Vitae Susan (Alford) Ponce

Education

2009 M.Sc. in Oceanography, Department of Geology, University of Michigan
2005 B.Sc. in Geology with highest honors, Geology Department, University of California at Davis

Professional Employment

2012-2013 Research Support, Amend & Hynson Labs, Botany Department, University of Hawaii at Manoa
Jul-Oct 2012 Marine Laboratory Specialist, Integrated Ocean Drilling Program, Texas A & M University
2011-2012 Research Officer, Radiocarbon Dating Laboratory, Research School of Earth Sciences, The Australian National University
2009-2010 Laboratory Assistant, Beman Lab, School of Natural Sciences, University of California at Merced
2007-2009 Graduate Student Research Assistant, Alt Lab, Department of Geology, University of Michigan
Fall 2008 Graduate Student Instructor, Department of Geology, University of Michigan
2005-2007 Staff Research Associate, Dickson Lab, Scripps Institute of Oceanography, University of California at San Diego
2003, 2005 Student Assistant III, Spero Lab, Geology Department, University of California at Davis

Teaching Experience

2021-2022 Independent Studies Parent Instructor, Menifee Union School District
Served as the primary instructor for my daughter's independent studies education for 1st grade
2020-2021 Independent Studies Parent Instructor, Mount Everest Academy, Kindergarten
Served as the primary instructor for my daughter's independent studies education for kindergarten
2013-2014 P.E. Volunteer, School for Examining Essential Questions of Sustainability
Co-taught a 20-minute running class once a week to a mixed-age (6th-8th grade) student group
Fall 2014 Sustainability Staff, Kaimuki Middle School
Taught hands-on sustainability-themed lessons to students per teacher requests
Fall 2008 3rd Grade Teaching Intern, Students for Environmental Education at Davis
Co-taught a 1-hour science lesson once a week for 10 weeks

Service

Spring 2014 Volunteer, Kalani High School FFA & Sustainability Programs
2013-2015 P.E. Volunteer, School for Examining Essential Questions of Sustainability
2013-2015 Docent, Waikiki Aquarium
2009-2012 Question Writer ('09, '11, '12) and Science Judge ('09), National Ocean Sciences Bowl
2008, 2009 Geosciences Organizing Committee, Michigan Geophysical Union
2003-2005 Science Volunteer, Paleontology Department, San Diego Natural History Museum

Field Experience

Jul-Oct 2012 Marine Laboratory Specialist, Paleo and Core Labs, Expedition 344S, R/V JOIDES Resolution, Baffin Bay
Summer 2010 Field Assistant, high-elevation nitrogen deposition study, Beman Lab, Yosemite National Park
Summer 2008 Student, International Geobiology Course, Yellowstone National Park and Santa Catalina Island
Summer 2007 Volunteer, foraminifera culturing, Spero Lab, Santa Catalina Island
Spring 2007 Volunteer, Gas Geochemistry Group, Hawaiian Volcanic Observatory, Kilauea, Hawaii
Winter 2007 Alkalinity Technician, Dickson Lab, CLIVAR I08S, R/V Reville, Southern Ocean
Summer 2006 Student, International Volcanology Field School, Katmai National Park
Summer 2005 Student, UC Davis Summer Geology Field Course, Bishop, CA
Spring 2005 Student, UC Davis Spring Geology Field Course, California
Spring 2004 Student, University of Auckland Spring Field Paper, Port Waikato, New Zealand
June 2003 Student, UC Davis Volcanology Field Course Kilauea, Hawaii

Honors

2005 Golden Key International Honour Society, Member
2003 National Society of Collegiate Scholars, Member
Spring 2002 Dean's List, College of Letters and Science, University of California at Davis

Publications

Beman, J.M., B.N. Popp and **S.E. Alford** (2012). Quantification of ammonia oxidation rates and ammonia oxidizing Archaea and Bacteria at high resolution in the Gulf of California and eastern tropical North Pacific Ocean. *Limnology and Oceanography* 57(3): 711-726.

Alford, S.E., J.C. Alt and W.C. Shanks (2011). Sulfur geochemistry and microbial sulfate reduction during low-temperature alteration of uplifted lower oceanic crust: Insights from ODP Hole 735B. *Chemical Geology* 286: 185-195.

Abstracts

Alford, S.E., D. Kapitulcinova, B. Kotrc, A.T. Langrhuus, GeoBio2008, W. Berelson, F. Corsetti, K. Hanselmann, H. Johnson, J. Spear, B.S. Stevenson, and J. de la Torre (2008). The Role of Sulfur Oxidation in Carbonate Precipitation and Dissolution Within Sulfidic Hot Springs, *Eos. Trans. AGU*, 89(53), Fall Meet., Suppl., Abstract B51D-0412. (poster).

Alford, S.E. and J.C. Alt (2008). Organic Carbon in the Deep Ocean Crust: Preliminary Results from Cores 1256D and 1301B. Michigan Geophysical Union Student Conference. (poster).

Eggins, S., H. Spero, A.D. Russell, **S. Alford**, S. Doo, A. Kuroyanahi, R.E. da Rocha, and A.Y. Sadekov (2007). Controls on Mg/Ca variation in planktonic foraminifera; insights from microanalysis of laboratory cultured *Orbulina Universa*, *EOS Trans. AGU*, 88 (52), Fall Meet. Suppl., Abstract PP41E-03. (invited talk).