

PhD Candidate, Massachusetts Institute of Technology

ACADEMIC QUALIFICATIONS

Massachusetts Institute of Technology, 2017-present

- MIT-WHOI Joint Program (AOSE)
- DOD-SMART Scholarship Awardee

Stanford University, 2014-15

- M.S. Environmental Fluid Mechanics (Civil/Envr Eng)
- Vennard Fellowship Awardee
- Design Thinking Boot Camp (d.school)
- Turbulent Sediment Flocculation Field Study

University of California at San Diego, 2008-13

- B.S. Environmental Engineering (Mech/Aero Eng)
- Political Science Minor
- Engineers For A Sustainable World (ESW) Member, 2008-'12
- Provost's Honors (5)
- Warren College Honors Program Councilperson, 2008-'10
- Warren College Literary Contest Runner-Up, 2009
- Warren College Literary Contest Winner, 2010

University of Wollongong, Australia, 2011

- Beach Profile Surveying, Morphological Analysis
- Water Quality & Treatment Processes Lab
- Coastal Environments & Morphology
- Environmental Law in New South Wales

Loyola High School of Los Angeles, 2004-08

- Highest honors at graduation
- AP Scholar Award
- Cumulative GPA: 4.23 (top ¼ of class)
- National Merit Scholarship recipient
- *SupportAbility* Courage Award recipient

RESEARCH EXPERIENCE

Space and Warfare Systems Center Pacific (SPAWAR)

- NREIP Internship Awardee
- Marine Mammal Surveying Project, SD Bay, 2012
- Jet-Induced Sediment Disturbance Modeling, 2013
- Diver Footstep-Induced Sediment Disturbance Modeling, 2013

Scripps Institution of Oceanography (SIO)

- Effect of Ocean Warming and Acidification on Crustose Coralline Algae (CCA), 2012-'13
- Effect of Ocean Warming and Acidification on Abalone Larval Settling, 2012-'13

United States Geological Survey (USGS)

- *CoSMoS-COAST: a model integrating longshore and cross-shore processes for predicting long-term shoreline response to climate change.*
Journal of Geophysical Research (2017)

VOLUNTEERING

- Educational Youth Outreach Project, 2008
Jefferson Elementary School, Lennox, CA
- Coral Reef Ecology Lab (160 hrs), 2013
Scripps Institution of Oceanography
- OCEANS Conference, 2013
- Homeboy Industries, LA, 2014
- NOSB Sea Lion Bowl, Stanford, 2015-'17
- NOSB Blue Lobster Bowl, MIT, 2018-'19
- Surfrider Foundation Volunteer, 2018-'19
- MIT MakerWorkshop Mentor, 2018-'19

OTHER INTERESTS

- Surfing, climbing, cycling, yoga, swimming, beach volleyball, scuba diving, backpacking

OTHER QUALIFICATIONS

- PADI Open Water Diver
- NAUI Advanced Open Water Diver
- NAUI Nitrox (EANx) Diver Certified
- NAUI Rescue Diver Certified
- Water Safety Instructor Certified
- Lasercamm Operator
- DAN Emergency O₂ Provider
- CPR/First Aid Certified
- AAUS Scientific Diver
- ATV Operator Certified

OTHER ACCOMPLISHMENTS

- All-American Swimmer, 2008
200-yd Freestyle Relay, 1:26.52
- UCSD Competitive Surf Team, 2009-'13
NSSA West Coast Champions, 2013
- GRE Verbal Reasoning: 166/170 (97%)
- John Muir Trail (21 days, 230.3 miles)
- MIT 2.810 CAD-CAM Car Race
1st Place, broke 17-year class record.
- MIT 2.680 Multi-Vehicle Hazard Search
2nd Place, 2nd Place, 1st Place

COMPUTER SKILLS

- C++
- GNU Emacs
- MATLAB (scripts, functions, GUIs)
- LaTeX
- ANSYS AQWA
- Siemens STAR-CCM+
- COMSOL MultiPhysics
- Microsoft Office (Word, Excel, PPT)
- Autodesk Inventor, AutoCAD
- Siemens NX

EMPLOYMENT HISTORY

Lifeguard, Swimming Instructor (2006 – 2013)

Victor E. Benstead Plunge
3331 Torrance Boulevard • Torrance, CA 90503
+1 (310) 781-7113

Environmental Engineering Student-Intern (6/14/2010 – 9/3/2010)

Los Angeles County Sanitation Districts
Compton Field Office
920 S. Alameda Street • Compton, CA 90221
+1 (310) 638-1161

Outback Surf Shop Sales Representative (1/03/2011 – 9/22/2013)

Outback Surf Shop
University of California, San Diego
9500 Gilman Drive #0004
La Jolla, CA 92093-0004
+1 (858) 534-8142

Environmental Engineer (6/25/2012 – 10/3/2013)

Naval Information Warfare Center - Pacific
49275 Electron Drive • San Diego, CA 92152-5435
+1 (619) 553-6169

Nearshore Hydrodynamic Modeling Specialist (7/6/2015 – 2/29/2016)

United States Geological Survey (USGS)
400 Natural Bridges Dr.
Santa Cruz, CA 95060
+1 (831) 460-7556

Marine Engineer (9/21/2015 – 2/2/2018)

Virgin Hyperloop One (formerly Hyperloop Technologies, Inc.)
2161 Sacramento St.
Los Angeles, CA 90021
+1 (412) 977-5754
