

education

bs | oceanography & app. math

humboldt state university | 2019

- overall gpa: 3.76
- total units: 181

high school

san pedro senior high | 2014

- marine science magnet program
- overall gpa: 3.9

coursework

oceanography

general oceanography

sampling techniques & field studies

chemistry I/II

geology

mechanics

electricity & heat

chemical oceanography

geological oceanography

physical oceanography

biological oceanography

fisheries oceanography

research field cruise I/II

fluid mechanics

applied math

calculus I/II/III

adv. vector calc.

linear algebra

adv. ordinary diff. eq.

partial diff. eq.

math thought

computer science I

linux

math modeling

numerical analysis

probability & statistics

real analysis

experience

humboldt bay p.o.r.t.s. | equipment technician

april 2018 - present

- maintain structure-mounted and buoy-mounted ADCP instruments
- maintain data transmission and communication systems
- lead in planning, organization, and execution of field and lab procedures
- coordinate between university, coast guard, industry, and Chevron corporation personnel

trinidad head atmospheric observatory | research assistant

april 2015 - present

- run diagnostic tests on atmospheric equipment
- prepare, launch, and monitor weather balloons and associated sampling equipment

woods hole oceanographic institution | summer student fellow

summer 2016 & summer 2017

- studied subsurface, cross-shelf transport involving warm core eddies at the shelf break (see next page for paper citation)
- worked with Dr. Gordon Zhang in the Applied Ocean Physics & Engineering department
- analyzed observational data collected from the ocean observatories initiative coastal pioneer array
- created and analyzed model output data using the regional ocean modeling system (ROMS)

humboldt state marine lab | laboratory technician

january 2016 - december 2018

- maintained wet and dry lab spaces
- maintained various plankton cultures for feeding and research
- practiced proper animal husbandry to care for captive marine animals on display and under experiment
- assisted with public outreach and student education

cabrillo marine aquarium | intern

summer 2014

- assisted in training middle school and high school students to work as aquarium docents
- designed and conducted research project (Los Angeles and California State science fairs)
- assisted with animal husbandry and aquaculture

skills

programming languages

experienced

matlab

proficient

r • c++ • python • mathematica

sampling

ctd • niskin bottle • xbt

adcp • sediment grabbers / corers

plankton nets • various knots

general

languages

english • spanish

software



L^AT_EX • photoshop • ROMS

os



linux • mac • windows

papers / talks

published/accepted

- Zhang, W. G., Partida, J. (2018). Frontal subduction of the Mid-Atlantic Bight shelf water at the onshore edge of a warm-core ring. *Journal of Geophysical Research: Oceans*, 123, 7795–7818. 
- Gawarkiewicz, G., R.E. Todd, W. Zhang, J. Partida, A. Gangopadhyay, M.U.H. Monim, P. Fratantoni, A. Malek Mercer, and M. Dent (2018). The changing nature of shelfbreak exchange revealed by the OOI Pioneer Array. *Oceanography*, 31(1):60–70. 

talks

- "Subsurface Offshore Transport of the Shelf Water at the Mid-Atlantic Bight Shelf Break Revealed by the OOI Pioneer Array" *Ocean Sciences Meeting*, Feb. 12, 2018. 
- "Using in situ measurements and numerical models to investigate subsurface coastal ocean transport." *HSU Mathematics Department Colloquium*, Oct. 18, 2018. 

posters

- Partida, J., Zhang, W. G., "Subsurface Exchange of Water Masses at the Mid-Atlantic Bight Shelf Break." *Gordon Research Seminar: Coastal Ocean Dynamics*, June 11-16, 2017.

research cruises

- 2017.05.30 - 2017.06.03, *R/V Neil Armstrong*, OOI Pioneer Array Maintenance: Assistant CTD Operator
- 2014 - 2019, *R/V Coral Sea*, various educational and research-based cruises (100+ hours)

awards

gates millennium scholar	2014-present
hsu oceanography "golden dolphin" award	2019
aslo multicultural program student	2018
paul valentich-scott oceanography scholarship	2016
dr. orval m. klose mathematics scholarship	2016
third place (animal bio.): los angeles science fair	2014

outside activities

humboldt marine debris program coordinator	2015-2017
hsu jazz combo	2015-2017
hsu oceanography club	2014-2018