**Elizabeth Bushnell**

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# Education

**San Diego State University (Current MS Program) Fall 2021-Present/ 3.5 GPA**

* Geography & GIS

**University of San Diego (Undergraduate) Graduated May 2020/ 3.9 GPA**

* Environmental Science Major with a concentration in Marine Ecology/Biology Minor

**Mohave Community College Graduated May 2016/ 4.0 GPA**

* Completed an Associate’s of Liberal Arts concurrently with high school

# Experience

**Climate Corps AmeriCorps Energy, Education, & Training Fellow November 2020-August 2021**

* Developed and delivered free, environmentally focused, K-12 STEM curricula for underserved educators across California, impacting over 10,000 students
* Duties included creating equity reports, science K-12 curricula development, promoting climate literacy, and creating and managing social media & newsletter content for science communication and outreach.

**CEQA Project Manager Spring Semester 2020**

* Collaborated with peers to write mock EIR for Monserate Winery
* Set and managed group schedule, meetings, and deadlines; reviewed peer work

­­­­**President, Association of Environmental Professionals Student Chapter** **Fall 2018-Spring 2020**

* Presided over meetings, work collaboratively with other club officers to make decisions on networking events and other club activities
* Volunteered at San Diego AEP chapter events with local professionals, including resume and CEQA workshops

**Undergraduate Research Scholar, University of San Diego Summer 2018; Summer 2019**

* Designed and conducted experimental study on the thermal tolerance of barnacles and the effects of increased predatory gastropod exposure in the larger context of climate change
* Responsible Conduct of Research (RCR) Certified through CITI Program
* Data management, QA/QC, Extensive use of Microsoft Excel, data analysis using R
* Presented at 2 USD conferences & Ocean Sciences Meeting 2020

**Teaching Assistant Spring Semester 2019**

* Set up lower division biology lab section, assisted students and graded assignments

**Mission Bay Research / Assessment Spring Semester 2018; Spring Semester 2020**

* Performed a geological, biological and chemical environmental assessment of Mission Bay, California under the direction of a California Professional Geologist
* Mapped the data in GIS to display how metals concentration, sediment composition, and distribution of an invasive mussel changed from 2016 to 2019
* Extensive use of Excel, including pivot tables

**Volunteer Intern, Tuna Harbor Dockside Market November 2016– March 2020**

* Inform customers about the sustainability of our operatives, as well as the impact that consumer responsibility makes when they choose sustainably sourced seafood

# Conferences

**Bushnell, E.** Shrinking Coastlines: Use of UAV LiDAR & SfM in the rocky intertidal. Austrian Marshall Plan Research Symposium, Carinthia University of Applied Sciences, Villach, Austria, 2022

**Bushnell, E.**, and N. Reyns. Impacts of Climate Change on Intertidal Communities: effects of elevated

temperature and predator exposure on *Chthamalus fissus*. Ocean Sciences, San Diego, CA, 2020

**Bushnell, E.**, and N. Reyns. Impacts of Climate Change on Intertidal Communities: effects of elevated

temperature on Growth & Mortality of *Chthamalus fissus*. USD Creative Collaborations, San Diego, CA, 2019

**Bushnell, E.**, and N. Reyns. Growth and Mortality of the Barnacle *Chthalamus fissus* in the Context of Climate Change. USD Creative Collaborations, San Diego, CA, 2018

# Publications, Working Papers & Reports

**Bushnell E**. Marshall Plan Research Report. “Shrinking Coastlines: Use of UAV LiDAR & SfM in the rocky intertidal”.

Reyns N, **Bushnell E**, Qiu B “Climate change impacts on early juvenile *Chthamalus fissus* barnacles: temperature and exposure to predatory gastropods”. (Submitted to PLOS One in 2020, returned with revisions that were not feasible due to COVID19).

# Awards

NSF-GRFP Fellowship **2021-Present**

Austrian Marshall Plan Fellowship **2022**

USD Honors Convocation Outstanding Research Student **2020**

Phi Beta Kappa Honor’s Society Member **2020**

Barry Goldwater Scholarship **2019**

USD Alice B. Hayes Scholarship **2019**

USD Summer Undergraduate Research Scholarship **2019**

USD Summer Undergraduate Research Scholarship **2018**

USD Dean’s List **2016-2020**

USD Presidential Merit Scholarship **2016-2020**

Phi Kappa Theta Honors Society Member **2016**

Mohave Community College Dean’s List **2014-2016**

Mohave Community College Early Start Scholarship **2014-2016**

# References

**Nathalie Reyns**

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**Eric Cathcart**

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**Kirstin Skadberg**

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