Lindsay LaBrecque

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Education

California Polytechnic State University, San Luis Obispo   GPA: **3.48**
Bachelor of Science in **Environmental Engineering**, June 2020   President's List 2017-2018
Minor in **Biology**

Relevant Experience

JPL Geologic Research Science Intern (Pasadena, CA)   Summer 2018
- Worked on investigating the correlation between present landslides and past earthquakes
- Obtained aerial radar data (UAVSAR) from the GeoGateway interface and used Google Earth Pro to conduct data analysis for the indication of landslides
- Compared landslides spanning multiple timelines to weakened ridges that resulted from major seismic disturbance using excel spreadsheets that calculated the percent correlation for each major earthquake
- Presented findings on the applications of paleo-seismology to earth science division leaders as well as the GeoGateway team
- Produced a final paper on original conclusions being considered for publication

JPL Planetary Ices Lab Intern (Pasadena, CA)   Summer 2016 and 2017
- Worked in the Planetary Ices Lab associated with the CLIPPER mission to Jupiter's moon Europa
- Conducted research to understand the ionic composition of the subsurface ocean on Europa
- Utilized calorimetry and Raman spectroscopy to gather data on the behavior of specific salt solutions under cryogenic temperatures
- Generated thermograms and spectra of salt solutions using data processing software
- Presented findings by PowerPoint to project directors, lab coordinator, and an audience of 20 people
- Demonstrated effective technical writing skills to communicate results through a final paper on research being submitted this year (2018) for publication

US Department of Energy (San Luis Obispo, CA)   Spring 2017
- Water Energy Sustainability Training Team
- Assisted a master's student in research on the plausibility of nitrifying then denitrifying wastewater using algae
- Essential in conducting total nitrogen tests on samples from test ponds and reactor to monitor nitrogen levels indicating the success of the algae to reduce nitrogen levels throughout the system

Student Grader (San Luis Obispo, CA)   Fall 2018
- Grader for "Programming Applications for Engineers" in the CE/ENVE Department at Cal Poly
- Grade students excel spreadsheets and VBA code weekly

Skills Excel with VBA programming | AutoCAD | ArcMap/ArcGIS Pro | Microsoft Office | IGOR Pro | Minitab