



SIMON J. MARKS

My background has inspired a desire to contribute toward natural resource management that strikes a careful balance between satisfying the anthropogenic and environmental resource requirements of today with those of the future. With my budding skills in research, hydrology, and statistical analysis, I am applying myself in water resource science as a graduate student. Taking great pride in my work, I hold myself, peers, and collaborators to high standards, while also exuding a calmness to minimize unnecessary stress.




EDUCATION

- current
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2019
- **M.S., Environmental Sciences and Management**
California Polytechnic State University  San Luis Obispo, CA
 - Thesis: Estimating evapotranspiration of a mountain meadow encroached by conifers using sap flow measurements
 - Expected June 2021
- 2019
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2015
- **B.S., Environmental Management and Protection (minor statistics)**
California Polytechnic State University  San Luis Obispo, CA
 - Concentration: Watershed management and hydrology
 - Summa cum laude

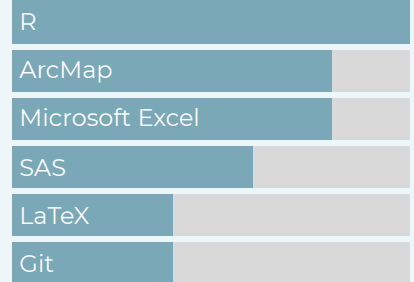
RESEARCH EXPERIENCE

- current
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2019
- **Graduate Research Assistant**
Dr. Chris Surfleet's Lab  California Polytechnic State University
 - Primarily working with sap flow field data to quantify evapotranspiration of a conifer encroached meadow near Chester, CA
 - Managed maintenance of field instruments at meadow restoration study sites and developed R scripts designed to streamline compilation and temporal aggregation of field data
 - Performed regression analysis (MLR) to study hydrologic and suspended sediment effects of forest roads at the Capar Creek Experimental Watershed
- 2018
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2018
- **Summer Undergraduate Researcher**
Dr. Chris Surfleet's Lab  California Polytechnic State University
 - Completed sub-surface soil sampling, performed soil particle size distribution lab analysis, and computed soil hydraulic properties in support of meadow restoration research- presented results with a poster at an on campus research symposium to conclude the summer
 - Cleaned and analyzed storm event peak flow and sediment discharge data collected at the Caspar Creek Experimental Watershed needed for distributed hydrology soil vegetation model (DHSVM) development

CONTACT

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 [linkedin.com/in/sjmarks97](https://www.linkedin.com/in/sjmarks97)

RELEVANT SKILLS




*The source code used to create
this resume is available on
github.com/sjmarks/datadriven_cv.*

Last updated on 2021-02-14.



INDUSTRY EXPERIENCE


2017
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2017

- **Natural Resource Damage Assessment Intern**
California Department of Fish and Wildlife  Sacramento, CA
 - Worked within the Office of Spill Prevention and Response on tasks related to injury assessment and environmental sampling including development of environmental reports, field documentation, checklists, and operating procedures
 - Created an instructional 'how to' video detailing field procedures when collecting environmental samples following a deleterious material spill event




TEACHING EXPERIENCE

current
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2019

- **Watershed Processes and Management**
Cal Poly NRES Dept.  San Luis Obispo, CA
 - TA and lectured portions of the course laboratory
 - Covered (all field based) streamflow measurement, stream channel and riparian assessment, road erosion hazard rating, and water quality measurement

2018
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2016

- **Supplemental Workshops in Science Facilitator**
Cal Poly Student Academic Services  San Luis Obispo, CA
 - Facilitated medium to large groups of undergraduate students, providing supplemental instruction in biology and chemistry university coursework
 - Promoted a sense of community encouraging communication and increasing collaboration between students



ACADEMIC PUBLICATIONS

2020
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2020

- **Hydrologic and suspended sediment effects of forest roads using statistical analysis and DHSVM modelling**
Under-Review (copy available upon request.)
 - Authored with Chris Surfleet of the California Polytechnic State University San Luis Obispo NRES Dept.



AWARDS AND HONORS

2019

- **Hull Graduate Assistantship**

2019
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2015

- **Cal Poly San Luis Obispo Dean's List**

2018

- **Association of Environmental Professionals (AEP) Scholarship**