



# 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

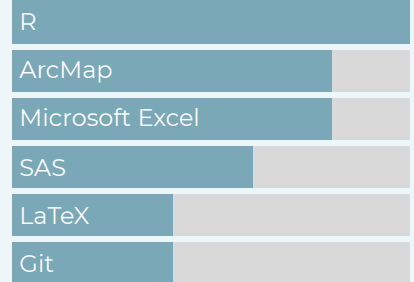
## RESEARCH EXPERIENCE

- 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

 [sjmarks@calpoly.edu](mailto:sjmarks@calpoly.edu)  
 [github.com/sjmarks](https://github.com/sjmarks)  
 [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](https://github.com/sjmarks/datadriven_cv).*

*Last updated on 2021-02-15.*



## 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 field and DHSVM modelling studies**  
Under-Review in Forest Ecology and Management (copy available upon request.)
  - Authored with Chris Surfleet of the California Polytechnic State University San Luis Obispo NRES Dept.



## AWARDS AND HONORS

2019  
  
2019  
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2015  
  
2018

- **Hull Graduate Assistantship**
- **Cal Poly San Luis Obispo Dean's List**
- **Association of Environmental Professionals (AEP) Scholarship**