SIMON J. MARKS

EDUCATION

current | 2019

M.S., Environmental Sciences and Management

California Polytechnic State University San Luis Obispo

- Thesis: Estimating transpiration of a mountain meadow encroached by conifers using sap flow measurements
- Expected Fall 2021

2019 | 2015

B.S., Environmental Management and Protection (minor statistics)

California Polytechnic State University San Luis Obispo

- Concentration: Watershed management and hydrology
- Summa cum laude

SELECTED POSITIONS

current | 2019

Graduate Research Assistant

Dr. Chris Surfleet's Lab — California Polytechnic State University

- Primarily working with sap flow field data to quantify transpiration of a conifer encroached meadow near Chester, CA in a meadow restoration research context
- 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 Caspar Creek Experimental Watershed

current | 2019

Watershed Processes and Management TA

Cal Poly NRES Dept. — San Luis Obispo, CA

- Covered (all field based) streamflow measurement, stream channel and riparian assessment, road erosion hazard rating, and water quality measurement
- Led GIS-based labs applying (geo)spatial analyst tools to watershed management problems

2018 | 2017

Supplemental Workshops in Science Facilitator

Cal Poly Student Academic Services — San Luis Obispo, CA

- Facilitated medium groups of undergraduate students, providing instruction in chemistry and biology coursework and promoting community/collaboration

Summer 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

ACADEMIC PUBLICATIONS

2021

Hydrologic and suspended sediment effects of forest roads using field and DHSVM modelling studies[1]

Forest Ecology and Management

- Authored with Chris Surfleet of the Cal Poly State University San Luis Obispo NRES Dept.

LINKS

1. https://www.sciencedirect.com/science/article/pii/S0378112721007222

CONTACT

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Academic Portfolio

TECHNICAL SKILLS

- R
- ArcMap/ArcGIS Pro
- Microsoft Excel
- SAS
- LaTeX
- Git

STRENGTHS

principles of data management, regression analysis, ANOVA, data visualization w/ `ggplot2`, data wrangling w/ `tidyverse`, code reproducibility (e.g. version control), CEQA

MORE INFO

See full CV hosted on github for references and more complete list of positions and achievements if desired.

Made w/ pagedown.
Source code: on github.com /sjmarks/datadriven_cv.
Last updated on 2021-09-03.