

KATHLEEN T. GRANT

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EDUCATION

University of Southern California
Doctor of Philosophy, Earth Sciences

Los Angeles, CA
Expected August 2024

University of Colorado at Boulder
Bachelor of Arts, Geological Sciences

Boulder, CO
May 2016

RESEARCH POSITIONS

JPL Year Round Internship Program (2021) \$43,200 annually

PUBLICATIONS

Chadwick, K. D., Brodrick, P. G., **Grant, K.**, Goulden, T., Henderson, A., Falco, N., ... Maher, K. (2020). Integrating airborne remote sensing and field campaigns for ecology and Earth system science. *Methods in Ecology and Evolution*. <https://doi.org/10.1111/2041-210X.13463>

PUBLISHED DATASETS

Chadwick, K. D., **Grant, K.**, Henderson, A., Breckheimer, I., Williams, C. F., Falco, N., ... & McCormick, M. (2020). *Locations, metadata, and species cover from field sampling survey associated with NEON AOP survey, East River, CO 2018*. Environmental System Science Data Infrastructure for a Virtual Ecosystem; Watershed Function SFA.

Chadwick, K. D., **Grant, K.**, Henderson, A., Scott, A., McCormick, M., Pierce, S., ... & Maher, K. (2020). *Leaf mass per area and leaf water content measurements from field survey in association with NEON AOP survey, East River, CO 2018*. Environmental System Science Data Infrastructure for a Virtual Ecosystem; A Multiscale Approach to Modeling Carbon and Nitrogen Cycling within a High Elevation Watershed.

Chadwick, K. D., **Grant, K.**, Bill, M., Henderson, A., Scott, A., & Maher, K. (2020). *Site-level Foliar C, N, delta13C data from samples collected during field survey associated with NEON AOP survey, East River, CO 2018*. Environmental System Science Data Infrastructure for a Virtual Ecosystem; A Multiscale Approach to Modeling Carbon and Nitrogen Cycling within a High Elevation Watershed.

Chadwick, K. D., Brodrick, P. G., **Grant, K.**, Goulden, T., Henderson, A., Bill, M., ... Maher, K. (2020): NEON AOP foliar trait maps, maps of model uncertainty estimates, and conifer map, East River, CO 2018. A Multiscale Approach to Modeling Carbon and Nitrogen Cycling within a High Elevation Watershed. doi:10.15485/1618133

INVITED PRESENTATIONS

Grant, K. 2021. NEON Hyperspectral Ground Campaign. *ESS-DIVE Community Data Workshop, Lawrence Berkeley National Lab, Virtual*.

SELECTED PRESENTATIONS

Grant, K., Chadwick, K.D., Brodrick, P.G., West, A.J., Lawrence, C., Maher, K. 2021. Remote Sensing Surface Mineralogy and Foliar Metal Content to Discern Contaminant Sources Across Heterogeneous Landscapes. *American Geophysical Union Fall Meeting, New Orleans, LA.*

Grant, K., Chadwick, K.D., Brodrick, P.G., West, A.J., Falco, N., Lawrence, C., Maher, K. 2021. Mapping contaminate distributions across heterogenous landscapes through remotely sensed metal bioaccumulation. *Goldschmidt2021, Virtual.*

Powell, T., Henry, H., Bagshaw, S., Chadwick, K.D., **Denniston, K.,** Henderson, A., & Kueppers, L. M. (2019). Characterizing variability in hydraulic traits in co-occurring western subalpine conifers to improve drought response predictions. *AGUFM, 2019*, B33F-2537. **(formerly Kathleen Denniston)**

WORK EXPERIENCE

Stanford University

Life Sciences Research Professional – School of Earth, Energy, and Environmental Science

Stanford, CA

June 2018 to July 2019

I coordinated and completed a ground sampling campaign for foliar, litter, soil and microbial analysis that accompanied hyperspectral and LiDAR datasets collected from NEON overflights. These samples were collected over twelve areas within four watersheds of interest, for a total of 435 sampling sites. Among other responsibilities, I ran a variety of assays to determine foliar, litter, root and soil compositions. The assays over which I had responsibility includes:

- Total C, N, and ^{13}C on an Elemental Analyzer and Picarro Isotope Analyzer
- Nitric acid digests for micronutrient determination on Inductively Coupled Optical Emission Spectrometry
- Nitric acid digests for micronutrient determination on Inductively Coupled Mass Spectrometry

The May Institute

Instructor – The Bay School

Santa Cruz, CA

August 2017 to May 2018

I served as a one-on-one instructor for children on the low-functioning end of the autistic spectrum. The Bay School employs the latest applied behavioral analysis treatments and research findings to produce measurable and lasting improvements in the lives of children with autism. The Bay School belongs to the May Institute, a national organization of award-winning programs for children and adults with autism and other special needs. My role included:

- Daily collection of quantitative data relating to the development of individual students
- Creating curriculum for individual students

Carnegie Institution for Science

Laboratory Technician – Department of Global Ecology

Stanford, CA

October 2016 to August 2017

I was employed at the Department of Global Ecology, Carnegie Institution for Science, located on the Stanford University campus, where I served as a laboratory technician in the Asner Lab. During my time at the Carnegie Institution, I built upon my skillset from undergraduate work and ran a wide variety of assays to

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