

DANNY J. EASTBURN

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EDUCATION

Master of Science, Soils & Biogeochemistry, University of California, Davis, in progress.

Bachelor of Science, Biological Sciences with an emphasis in Evolution, Ecology, and Biodiversity, University of California, Davis, 2009.

RELEVANT EXPERIENCE

Research Associate, Department of Plant Sciences, University of California, Davis (9/09-Present).

Oversaw operations of multiple research projects in an oak woodland-annual grassland system. Managed field crews in implementation and maintenance of project infrastructure, led vegetation and soil sampling efforts across multiple spatial scales, and trained and supervised laboratory members in analyses of soil and water samples. Developed and managed field and laboratory databases, created public outreach content, and managed laboratory webpage.

Research Intern, Department of Plant Sciences, University of California, Davis, (1/08-6/08). Collected soils across a hydrologic gradient of Sierra Nevada mountain meadows to characterize variation in decomposition states. Investigated and adapted laboratory techniques to rapidly assess diagnostic characteristics of organic soil materials. Carried out analyses, managed laboratory database, and synthesized results.

Research Assistant, Department of Plant Sciences, University of California, Davis, (9/06-8/09).

Project 1: Assisted in the implementation of a cross-sectional, longitudinal survey of cattle grazing and meadow habitat characteristics across Sierra Nevada mountain meadows. Helped collect hydrologic, plant community, soil, and grazing data. Also assisted with water quality and habitat data collection in concurrent, controlled grazing experiment. Led laboratory analyses of soil and water quality metrics for both project components, and developed and managed respective databases.

Project 2: Managed a field crew tasked to survey a sensitive amphibian species (*Bufo canorus*) across 24 Sierra Nevada mountain meadows. Developed and managed databases, and synthesized and analyzed results for conference proceedings.

SKILLS

- *Programming and Database Languages*: Experience managing 'Big Data' and working knowledge of C, Java, Pearl, PHP, Xcode, Python, PostgreSQL, and MySQL
- *Statistical and Computing Software*: Proficient in JMP, R, Stata, SigmaPlot, PC-ORD, ArcGIS, Adobe Creative Suite, and Microsoft Office Suite
- *Laboratory Analyses*: Extensive experience in analyzing for water quality constituents, including sample pH, electrical conductivity, nitrate-nitrogen, ammonium-nitrogen, total nitrogen, soluble reactive phosphorus, total phosphorus, dissolved organic carbon, fecal coliforms, and total suspended solids.

Proficient in carrying out analyses of soil characteristics, including sample pH, total nitrogen, total carbon, nitrate-nitrogen, ammonium-nitrogen, denitrification potential and bioavailable phosphorus.

PUBLICATIONS

Roche, L.M., A.J. Latimer, D.J. Eastburn, and K.W. Tate. 2012. Cattle grazing and conservation of a meadow-dependent amphibian species in the Sierra Nevada. *PLoS ONE* 7(4): e35734.

Roche, L.M., B. Allen-Diaz, D.J. Eastburn, and K.W. Tate. 2012. Cattle Grazing and Yosemite Toad (*Bufo canorus* Camp) Breeding Habitat in Sierra Nevada Meadows. *Rangeland Ecology and Management*. 65:56-65.

Roche, L.M., A.T. O'Geen, V.T. Eviner, D.J. Eastburn and K.W. Tate. *In Prep.* Provisioning of Ecosystem Services in Grazed Montane Wetlands: Hydrologic-Soil-Plant Community Dynamics.

ABSTRACTS AND PRESENTATIONS

Eastburn, D.J., L.M. Roche, K.W. Tate. Herbaceous plant diversity and productivity relationships across multiple states of an oak woodland-annual grassland system. 65th Annual Meeting of the Society for Range Management, Spokane, Washington: January 29 – February 3, 2012.

Eastburn, D.J., L.M. Roche, K.W. Tate. Plant diversity and productivity relationships across a California hardwood rangeland. 1st Annual Rangeland Science Symposium, Davis, California: January 19, 2012

Roche, L.M., A.M. Latimer, D.J. Eastburn, K.W. Tate. Cattle grazing and sensitive wildlife species conservation in Sierra Nevada mountain meadows. 64th Annual Meeting of the Society for Range Management. Billings, Montana: February 6-11, 2011.

Eastburn, D.J., L.M. Roche, and K.W. Tate. Investigation of relationships between livestock utilization and Yosemite toad (*Bufo canorus*) occupancy in montane meadows of the Sierra Nevada. Poster Presentation. 63rd Annual Meeting of the Society for Range Management and the 50th Annual Meeting of the Weed Science Society of America. Denver, Colorado: February 5-11, 2010.

Roche, L.M., K.W. Tate, D.J. Eastburn, A.J. Lind, and R. Grasso. Effects of cattle grazing, water quality attributes and hydrologic conditions on occupancy of Yosemite toad (*Bufo canorus*) breeding habitat in Sierra Nevada mountain meadows. 63rd Annual Meeting of the Society for Range Management and the 50th Annual Meeting of the Weed Science Society of America. Denver, Colorado: February 5-11, 2010.

Roche, L.M., K.W. Tate, D.J. Eastburn, A.J. Lind, and R. Grasso. Effects of cattle grazing, water quality attributes and hydrologic conditions on occupancy of Yosemite toad (*Bufo canorus*) breeding habitat in Sierra Nevada mountain meadows. 63rd Annual Meeting of the Society for Range Management and the 50th Annual Meeting of the Weed Science Society of America. Denver, Colorado: February 7-11, 2010.

Roche, L.M., K.W. Tate, A.T. O'Geen and D.J. Eastburn. Identifying Relationships Between Livestock Grazing, Plant Community Characteristics and Soil Attributes in Central Sierra Nevada Meadows. 62nd Annual Meeting of the Society for Range Management. Albuquerque, New Mexico: February 8-12, 2009.

Roche, L.M., K.W. Tate, A.T. O'Geen and D.J. Eastburn. Denitrification as a Function of Moisture Gradients and Annual Livestock Utilization in Upper Montane Meadows of the Central Sierra Nevada. Poster Presentation. 62nd Annual Meeting of the Society for Range Management. Albuquerque, New Mexico: February 8-12, 2009.

PROFESSIONAL AFFILIATIONS

Soil Science Society of America
Society for Range Management
Society for Ecological Restoration
Society for Conservation Biology

ACADEMIC & COMMUNITY SERVICE

Student Council President, Lake Tahoe Community College (9/02-7/03).

Student Council Commissioner of Political Affairs, Lake Tahoe Community College (10/01-7/02).

Region II Voting Delegate – California Community Colleges Student Association (1/02-1/03).

Co-chair of Coats for Kids, South Lake Tahoe, California (7/02-4/03).