

Ph.D. Recruitment – Nitrogen Cycling in High Temperature Agroecosystems

University of California Riverside, Department of Botany and Plant Sciences

Darrel Jenerette

I am recruiting a Ph.D. graduate student for a recently funded project directed towards nitrogen cycling in high temperature agricultural systems. The project goals are to improve understanding and to evaluate mitigation potential of agricultural contributions to air quality and greenhouse gasses. The project features opportunities to work with a unique combination of nitrogen trace gas emission measurements using fast response environmental sensors, remote sensing from multiple imaging platforms, coupled soil-atmosphere process modeling, and engagement with policy through California's cap and trade system. The student will work with an interdisciplinary team at the University of California with collaborators at the California State University East Bay (Patricia Oikawa) and University of Iowa (Jun Wang). Recent findings (Oikawa et al. 2015, *Nature Communications*; Liang et al. 2016 *Global Change Biology*) describe the theoretical and empirical justifications for the project.

As part of the Jenerette lab, the student will join a diverse group of researchers who value both basic science and applications directed to improving societal sustainability. We foster a collaborative environment for success in the program and as a platform for a wide range of future careers. Training is individualized to student needs and emphasizes critical and creative scientific thinking, technical skill development, working in diverse teams, and science communication from publishing high quality journal articles to oral presentations and engagement with the public.

UC Riverside and the Department of Botany and Plant Sciences provides a stimulating and enjoyable home for graduate training. The university features a diverse student population in terms of background and goals. At the edge of the greater Los Angeles metropolitan region, Riverside is located near ocean, mountains, and desert environments along with premier cultural opportunities.

Interested students should contact Darrel Jenerette (darrel.jenerette@ucr.edu) and provide a short description of background, interests, and goals. Information about the application process (due December 19, 2016) and our graduate program are available on the departmental webpage. Students from diverse backgrounds are encouraged to apply.