

Annie Young-Mathews

Department of Land, Air and Water Resources
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EDUCATION

Master of Science, Horticulture and Agronomy, University of California, Davis
Degree expected Summer 2009. Advisor: Dr. Louise Jackson

Bachelor of Science, Biology, University of Oregon, Eugene, June 2000
Minor in Spanish. Study Abroad: Universidad de las Americas, Puebla,
Mexico, 1998 – 1999

RESEARCH EXPERIENCE

Graduate Student Researcher

Professor L.E. Jackson, Land Air and Water Resources, UC Davis (9/07 - Present)
Designed and implemented a farm-scale case study examining the effects of riparian restoration on ecosystem services, nutrient cycling and biodiversity. Monitored soil microbial communities, vegetation biomass and species cover, and soil and runoff nutrient levels.

Research Assistant

Professor L.E. Jackson, Land Air and Water Resources, UC Davis (2/07 – 9/07)
Performed a landscape level study to examine soil and vegetation characteristics on different combinations of soil types and land uses along waterways in western Yolo County for targeting of future riparian restoration efforts.

Watershed Technician

Western Pennsylvania Conservancy, Union City, PA (1/02 – 12/02)
Independently conducted weekly ground and surface water quality sampling for watershed assessment study. Collaborated with supervisor and two interns to perform bioassays and riparian and aquatic habitat assessments, using GPS to map sampling locations and habitats.

Restoration Ecology Technician

Bandelier National Monument, Los Alamos, NM (7/00 – 11/00)
Collaborated with four-member field crew to collect data for restoration ecology field study examining the effects of fire and manual tree removal on the reestablishment of Ponderosa grasslands in a high desert ecosystem. Identified and recorded plants on established vegetation transects and plots, and collected and compiled soil erosion and moisture data.

Undergraduate Research Assistant

Professor A. Barkan, Inst. of Molecular Biology, University of Oregon (1/97 – 12/97)

Worked independently to perform lab procedures that required extreme precision and attention to detail. Cataloged maize samples and maintained computer database. Cared for maize plants and collected specimens.

TEACHING EXPERIENCE**Environmental Educator**

Peace Corps, Potosí, Nicaragua (8/04 – 10/06)

Taught environmental education to nine classes of 3rd – 6th graders using hands-on participatory methodologies in and outside the classroom. Co-planned and facilitated a series of workshops for 227 elementary and secondary school teachers. Initiated and led an environmentally focused youth group for 20 adolescents. Collaborated with NGO counterparts to plan and implement community development and environmental education workshops and trainings.

Substitute Teacher

Santa Cruz County School Districts, CA (12/03 – 4/04)

Taught grades 1-12 in a variety of subjects, including some bilingual classrooms. Successfully adapted each day to new age groups, subject matter, and student demographics, effectively maintaining order and conducting lessons on a wide variety of topics.

Public Education Coordinator

Northwest Coalition for Alternatives to Pesticides, Eugene, OR (1/01 – 3/01)

Coordinated research and responses to up to 50 information requests per week from the public regarding various pesticide-related topics. Prepared materials for informational displays and panel discussions. Oversaw the work of two work-study assistants to ensure that tasks were completed in a timely and efficient manner.

AGRICULTURAL EXPERIENCE

Organic Farming – Experience planting, cultivating, weeding, fertilizing, mulching, and harvesting crops, as well as composting and managing care of seedlings in greenhouse, packing and delivering CSA boxes, and working at farmers markets as an apprentice at Live Earth Farm (2003-04) and as a volunteer with World Wide Opportunities on Organic Farms in Europe (2001). Helped organize on-farm educational outreach programs and led school tours.

HONORS AND AWARDS

- Phi Sigma Biological Sciences Honor Society, May 2008
- UC Graduate Fellowship: Horticulture & Agronomy Block Grant, 2007-2008, 2008-2009
- Phi Beta Kappa Honor Society, “Oregon Six” Honoree, June 2000

LANGUAGE

Spanish – High proficiency in written and oral communication.

SERVICE

- GSA Representative, Horticulture & Agronomy Graduate Group, UC Davis (10/07 – Present)
- Mentor to High School Students, Student and Landowner Education and Watershed Stewardship (SLEWS) Project, Winters, CA (10/07 – Present)
- Docent, Seymour Marine Discovery Center, Santa Cruz, CA (4/03 – 8/04)

MEMBERSHIPS

- Soil Science Society of America (SSSA-CSSA-ASA)
- Ecological Society of America
- American Association for the Advancement of Science (AAAS)
- Sierra Club

PROFESSIONAL TRAINING

- Sustainable Tourism 3-Day Course, March 2006
USAID/US Forest Service, Leon, Nicaragua
- Project Design and Management 4-Day Workshop, January 2006
Peace Corps, Matagalpa, Nicaragua
- GROW BIOINTENSIVE 3-Day Workshop, March 2004
Ecology Action, Willits, CA
- Introduction to Apiculture 1-Day Workshop, April 2003
UCSC Farm & Garden Project, Santa Cruz, CA