

# **Suzie Woolhouse**

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Born December 31, 1982

## **EDUCATION:**

### **San José State University**

Masters of Science in Biological Sciences with a Concentration in Conservation and Organismal Biology (2011)

Emphasis on Botany

Master's Thesis: The Biology and Ecology of Rare Plants found on Serpentine in Plumas National Forest, Northern Sierra Nevada, California.

### **San José State University**

Bachelor of Science in Environmental Studies with a Concentration in Restoration and Natural Resource Management (2009)

Emphasis in Botany and Forest Ecology

Senior Project: 'Pygmy' Old-growth Redwood Characteristics on an Edaphic Ecotone In Mendocino County, California

## **AWARDS AND RECOGNITIONS:**

Scholarship California Native Plant Society Santa Clara Valley Chapter, Conservation Scholarship, Spring 2011, \$1500

Scholarship SJSU Department of Biological Sciences, Alan Polanshek Scholarship, Fall 2010, \$1000

Scholarship Michael Lee Environmental Foundation, Biology Graduate Scholarship, Spring 2010, \$1500

Fellowship SJSU Department of Biological Sciences Graduate Research Fellowship, Spring 2010, \$1500

Scholarship Michael Lee Environmental Foundation, Environmental Studies Undergrad Scholarship, Spring 2009, \$1000

Nomination Outstanding Graduating Senior of the Year Award, Spring 2009

Scholarship California Native Plant Society, Conservation Conference, Winter 2009, \$600

Student Liaison, California Native Plant Society, Santa Clara Valley Chapter, 2000 – present.

Phi Kappa Phi Honor Society Member, San José State University, Spring 2008 – Spring 2009.

Dean's Scholar, San José State University, Fall 2009 – Fall 2010

President's Scholar, San José State University, Spring 2008

## **RESEARCH EXPERIENCE:**

### **USDA Forest Service**

Plumas County, CA

May 2009 – present

#### Field Research

Conducted field and greenhouse studies on the reproductive biology, ecology and distribution of globally ranked rare plants found on serpentine in Plumas National Forest, California. This work was done in collaboration with Dr. Nishi Rajakaruna (College of the Atlantic), Dr. Susan Harrison and Erica J. Case (UC Davis).

### **San José State University/UC Davis**

Colusa County, CA

March 2009 – February 2011

#### Field Research

Assisted in the field for a study of local adaptation to serpentine and sandstone soils in common chaparral shrubs. This work was done in collaboration with Dr. Nishi Rajakaruna (College of the Atlantic), Dr. Susan Harrison and Annette Bieger (UC Davis).

### **San José State University**

San José, CA

December 2008 to May 2009

#### Botany Garden Intern

Worked under the direction of Dr. Nishi Rajakaruna to restore the campus Botany Garden. Organized a large volunteer effort to clear out vast quantities of overgrown vegetation and non-native species. Created a master plan to bring in a wide array of native species to the Garden and increase its use for education and outreach. Compiled a website for garden publicity that included descriptions of all species.

### **Nomad Ecology**

Sunol, CA

July 2008 to September 2008

#### Botanist

Worked under supervision and independently for an Environmental Consulting Firm. The project involved mapping invasive weeds in a watershed in Northern California. Field work included ten hour days hiking around in 100+ °F heat and using a GPS to map weed populations. Time was also spent doing data entry and analysis.

### **Mendocino Institute**

Mendocino, CA

June 2008 to July 2008

### Field Research

Worked under the direction of Dr. Will Russell (San José State University) on Senior Thesis Research project in the Pygmy Forest in Mendocino County, CA. Research involved studies of plant-soil relations along a soil gradient from pygmy – non-pygmy forest.

### **Pearson-Arastradero Preserve/SJSU**

Palo Alto, CA

March 2008 to April 2008

### Research/Field Work

Worked as a class with a team of students to collect data on regeneration of three California oaks (*Quercus* spp). Skills were acquired in field methods including the use of GPS, plant identification, restoration methods in oak woodland communities, report writing, data entry, and statistical analysis.

### **Field Assistant**

Monterey County, CA

March 2008 to April 2008

### Field Work

Assisted in field research on two *Ceanothus* species in coastal Monterey, CA and a rare species of buckwheat (*Eriogonum nortonii*), in and around Pinnacles National Monument, CA.

### **Mendocino Institute**

Mendocino, CA

May 2007 to October 2007

### Research/Field Assistant

Worked under the direction of Dr. Will Russell examining natural regeneration of coastal redwood (*Sequoia sempervirens*) forests and their associated plant communities in Mendocino County, CA. Assisted in the field with data collection, plant surveys on treacherous terrain, and plant collection and identification.

### **Wildlands Restoration Team**

Santa Cruz County, CA

March 2007 to April 2007

### Field Assistant

Worked in parts of Big Basin State Park with Ken Moore of the Wildlands Restoration. Assisted in the removal of invasive species such as french broom (*Genista monspessulana*) and pampas grass (*Cortaderia selloana*). Acquired knowledge of invasive and native plant species, learned techniques for removal and control of invasives.

### **San José State University**

San José, CA

January 2007 to May 2007

### Teaching Assistant

Organized weekend camping trips to National Parks in CA. Assisted with class activities and helped students with plant identification and general questions regarding forest ecology and course content.

## **TECHNICAL REPORTS:**

Coppoletta, M. and S. Woolhouse. 2010. Conservation Assessment for *Monardella stebbinsii* Hardham and Bartel (Stebbin's Wild Mint). Prepared for the USDA Forest Service Pacific Southwest Region.

Trulio, L.A., S. Aslanian, D. Carmichael, M. Esquivel, K. Gleeson G. Hurtado, M. Keasey, J. McRae, R. Ross, J. Sinclair, W. Thornton, A. Torres, and S. Woolhouse. 2008. Natural Regeneration of Three Oak Species at the Enid W. Pearson-Arastradero Preserve in Santa Clara County, California. Report to Sheri Lubin and Miriam Sachs-Martin, Acterra, Arastradero Preserve, Palo Alto, CA.

## **POPULAR JOURNAL ARTICLES:**

Woolhouse, S. and N. Rajakaruna. 2009. The SJSU Botany Garden Makeover: Volunteers gather from around campus and San José to clean-up and restore SJSU's home for native plants. *The Scientist*, The College of Science Newsletter 13 (1): 2-3.

Woolhouse, S. and N. Rajakaruna. 2009. The SJSU Botany Garden Makeover: Volunteers gather to help restore a native plant garden. *The Blazing Star*, California Native Plant Society, Santa Clara Valley Chapter Newsletter, March-April 2009.

## **INVITED WORKSHOPS AND LECTURES:**

Edible Botany Workshop. 2010. Veggielution Community Farm, San Jose, CA.

A Taste of California: Human Uses of Native Plants. 2010. College of the Atlantic, Bar Harbor, ME.

From Pygmy Pines to Towering Redwoods (California Plant Communities). 2010. College of the Atlantic, Bar Harbor, ME.

Writing in the Environmental Field (Panel Discussion). 2010. San José State University, San José, CA.

## **CONFERENCE PRESENTATIONS (presenter in bold)**

**Woolhouse, S.** and N. Rajakaruna. 2010. Biology and ecology of three rare serpentine plants from Plumas National Forest in the Northern Sierra Nevada, California. Paper presented at the California Botanical Society Graduate Student Symposium, San José State University in San José, CA, February 13.

**Woolhouse, S.** and N. Rajakaruna. 2011. Ecology and Reproductive Biology of two serpentine endemic *Monardella* species from Plumas National Forest. Poster presented at

the Northern California Botanists Symposium, California State University, Chico, CA, January 10-11.

**Woolhouse, S.** and N. Rajakaruna. 2011. Variation in the rare bodenvag *Lewisia cantelovii* J. T. Howell (Montiaceae): Local adaptation or phenotypic plasticity. Paper presented at the 7<sup>th</sup> International Conference on Serpentine Ecology, Coimbra, Portugal, June 12-16.

**Woolhouse, S.** and N. Rajakaruna. 2011. Ecology and Reproductive Biology of two serpentine endemic *Monardella* species. Poster presented at the 7<sup>th</sup> International Conference on Serpentine Ecology, Coimbra, Portugal, June 12-16.

Knudsen, K., Fryday, A., **Rajakaruna, N.**, Olday, F. C., O'Dell, R. E., and S. Woolhouse. 2011. Lichens of the New Idria Serpentine Mass, San Benito County, California, USA: A Preliminary Study of the Lichen-Substrate Relationship. Poster presented at the 7<sup>th</sup> International Conference on Serpentine Ecology, Coimbra, Portugal, June 12-16.

**Russell, W.** and Woolhouse S. 2011. 'Pygmy' Old-growth Redwood Characteristics on an Edaphic Ecotone In Mendocino County, California. Paper presented at the Redwood Symposium, Santa Cruz, Ca, June 21-23.

#### **RELATED COURSEWORK AND WORKSHOPS (in order taken):**

Sustainable Forest Management

Environmental Restoration

Advanced Environmental Restoration

Plant Taxonomy

California Plant Communities

Plant Morphology

Edible Botany

Sierra Nevada Insects

Advanced GIS

Plant Taxonomy for Teachers *Workshop*

Botanical Illustration