

# Jon L. Montgomery

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## Education

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### **Bren School of Environmental Science & Management** - University of California, Santa Barbara

Master of Environmental Science and Management (June 2013)

Specialization: Conservation Planning

Award: Bren School Summer Internship Fellowship (2012)

Relevant Coursework: Sustainable Watershed Management, River Restoration, Conservation Planning, Landscape Ecology, GIS, Principles and Practice of Environmental Planning, Environmental Law

### **University of Wisconsin, Madison**

Bachelor of Arts in Psychology (May 2010)

Certification: Certificate in Environmental Studies from Nelson Institute of Environmental Studies

Relevant Coursework: Environmental Conservation, Extinction of Species, Environmental Ethics, Principles of Environmental Science

## Group Project Master's Thesis

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*Promoting Multi-benefit Floodplain Conservation Strategies Along the Lower Santa Clara River Through the Prioritization of Agricultural Conservation Easements*

Client: The Nature Conservancy

Role: Project Manager

- Developed methodology for implementation of multi-million dollar easement acquisition program
- Scheduled and organized group meetings, set deadlines, and delegated tasks to group members
- Constructed parcel prioritization model using ArcGIS based on hydrologic, ecological, and social factors
- Created comprehensive decision guidance database tool for convenient implementation of results
- Wrote and designed non-technical brief summarizing project methodology and results
- Project was accepted into 2012 ACES and Ecosystem Markets Conference and 2013 California Society for Ecological Restoration Conference

## Conservation-Related Work Experience

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### **Assistant GIS Technician- Midpeninsula Regional Open Space District**, Los Altos, CA (October 2013 – Present)

- Assist the GIS, GPS, and graphics needs of Planning, Natural Resource Management, Real Property, Public Affairs, and Operations departments
- Implemented ArcGIS Online organizational account and development of web applications
- Produced mapbook containing habitat details and occurrence data for special status species to streamline project planning and mitigation efforts

### **Conservation Intern- Los Padres ForestWatch**, Santa Barbara, CA (May 2012 – September 2012)

- Identified hundreds of cases of hydraulic fracking on oil and gas fields surrounding National Forest land through research of historical databases
- Analyzed the adequacy of Oil Spill Contingency Plans for the Sespe and Santa Maria oil fields
- Wrote non-technical reports highlighting ecological significance of sensitive and threatened species located within the Los Padres Forest for public education
- Monitored grazing permits granted by the USFS for compliance with NEPA as well as the impact of grazing on and around the Carrizo Plain National Monument
- Located and mapped the location of target shooting areas on forest lands

### **Restoration Intern- Coal Oil Point Reserve**, Goleta, CA (September 2011- December 2011)

- Restored several acres of native California coastal shrub land within reserve
- Collected local native plant seeds and established native plant propagation for use in reserve restoration projects
- Supervised volunteers during volunteer restoration workdays on restoration techniques, theory, and importance

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## Conservation-Related Work Experience - Continued

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### Restoration Technician- Good Oak Ecological Services, Madison, WI (June 2009 – August 2011)

- Implemented restoration projects to restore native prairie, savannah, shoreline, wetland, and woodland ecosystems
- Assessed site conditions and conducted native/invasive plant surveys
- Created comprehensive interactive native and invasive plant database to increase efficiency in comprehensive site assessments and data management and trends
- Supervised interns during field projects on restoration techniques and theory

### Summer Intern- OurEarth.org (Summer 2009)

- Contributed through research and data entry to creation and management of a database of environmental services for individual counties across the nation and a database of environmental related academic programs at universities to provide the public with an easy method for obtaining environmentally relevant regional information

## Volunteer Experience

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### Arcadia Studio, Santa Barbara, CA (Spring 2012)

Sustainable Sites Initiative Intern: Developed monitoring plan for restored native plant communities within landscaping of Ocean Sciences Center at UCSB

### Santa Barbara Audubon Society, Santa Barbara, CA (Spring 2012)

Tree Swallow Nest Box Study participant: Monitored activity in and around established nest boxes to collect data on local Tree Swallow Populations

### Environment On Tap (UW Environmental Studies Department), Madison, WI (October 2008 – May 2010)

Coordinator: Organized monthly discussion series that brought together environmental professionals, students, and other community members to discuss pressing environmental issues in an informal setting

### Lake Shore Nature Preserve, Madison, WI (Spring 2009)

Restoration Volunteer: Worked on shoreline restoration project along banks of Lake Mendota to establish native vegetation

## Publications

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Fuxjager, M. J., **Montgomery, J.L.**, and C. A. Marler. "Species Differences in the Winner Effect Disappear in Response to Post-victory Testosterone Manipulations." *Proceedings of the Royal Society B* 278 (2011): 3497-503.  
Fuxjager, M. J., **Montgomery, J.L.**, E. A. Becker, and C. A. Marler. "Deciding to Win: Interactive Effects of Residency, Resources and 'boldness' on Contest Outcome in White-footed Mice." *Animal Behavior* 80.5 (2010): 921-27.

## Skills Summary

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Computer Skills: Skilled in ArcGIS, KML/Google Earth, ArcGIS Online, GDAL/OGR, Proficient in Microsoft Word, Excel, PowerPoint, Adobe Illustrator and Photoshop, SOLVER, and R Statistical Software. Competent in Javascript, HTML and Python coding languages. Familiar with Watershed Analysis Risk Management Framework (WARMF), Circuitscape, Zonation, and Better Assessment Science Integrating Point and Non-point Sources (BASINS). Experience in mathematical modeling using excel and R. Academic and research lab experience including biology and chemistry labs and research in UW psychology department.

Field Skills/Experience: GPS (Garmin and Trimble), Native and nonnative plant identification (Central Coastal California and Midwest), brush clearing, herbicide application, planting/transplanting, seed collection and propagation

Additional Skills and Training: NEPA/CEQA Workshop