

Jaal Mann  
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## EDUCATION

**The Evergreen State College, Olympia WA**  
**2012-2014. Master of Environmental Studies.**

### THESIS

*Prairie fire as a selective agent: Second-generation responses and plant community shifts.* Analyzing prairie community changes between burned and un-burned plots and growing *Lomatium utriculatum* seeds from the two treatments to observe second-generation effects of fire.

Reader: Carri LeRoy, PhD.

These results were presented as a contributed talk at the Ecological Society of America conference in Sacramento, CA, in August 2014, and are currently in preparation for publication.

### CANDIDACY PAPER

*Remediation and prevention of Scotch broom's (Cytisus scoparius) damaging effects on forestry.* Identifying the allelopathic, shading, and nutrient effects of an invasive weed both directly on forests and on inter-plant mycorrhizal networks.

### SELECTED CLASSES

Restoration Ecology  
Advanced GIS

Sustainable Forestry  
Research Design and Quantitative Methods

**The Evergreen State College, Olympia WA**  
**2010-2012. Bachelor of Science in Environmental Science.**

### EMPHASIS

Field Ecology

### RESEARCH

Analyzed stem-elongation measurements of honey mesquite (*Prosopis glandulosa*) to determine the annual growth effect of major flood events following installation of the Glen Canyon dam in the Grand Canyon.

Undergraduate research on the effect of forest type on pacific wren (*Troglodytes pacificus*) call variations. Measured time between calls and pitch of calls using parabolic microphones and Raven Pro software.

**Skagit Valley College, Mount Vernon WA**  
**2008-2010. Undergraduate studies.**

## PROFESSIONAL EXPERIENCE

### Timberland Technician

Sept 2015-Present. Financial Products and Services, Inc., Chehalis, WA

Manage O'Neill Pine Company's 2,000+ acres of timberlands.

Survey for tree growth and health, and perform or coordinate maintenance as needed.

Create Microsoft Excel documents to analyze timber volumes and plan forestry activities accordingly.

Research methods to improve planting survival, including controlled field trials for ungulate browse prevention.

Administer programs and contracts to allow recreational access and harvests of non-timber forest products (firewood, mushrooms, salal, and cascara bark).

Analyze and map properties using GPS and GIS.

Ensure compliance with Forest Stewardship Council (FSC) regulations and other voluntary programs.

Perform property line and harvest unit layout and road placement for forestry operations.

### **Natural Resource Technician**

April 2015-Sept 2015. West Fork Environmental, Olympia, WA

Survey streams throughout the Pacific Northwest using electrofishing techniques to determine fish presence.

Map stream channels to determine the extent of perennial flows and their initiation points.

Assist with PIT tag installation to track salmonid movement for Seattle City Light.

Assess culverts to determine their passability to fish.

### **Research Assistant**

Nov 2014-March 2015. Monteverde Institute, Monteverde, Costa Rica

Capture, process, and band both resident and migratory birds.

Follow standardized protocols as part of the ongoing MoSI project monitoring overwintering survival of neotropical migratory bird species (<http://www.birdpop.org/pages/mosi.php>).

### **Native Plant Horticulture Intern**

Sept 2014-March 2015. ProNativas, Monteverde, Costa Rica

Develop cultivation protocols for plants not previously grown from seed and plants for use in living furniture installations.

Assist with restoration and native plant garden maintenance efforts.

### **Conservation Nursery Coordinator**

Sept 2012-Aug 2014. Sustainability in Prisons Project, Olympia, WA

Supervise and train inmate work crews and volunteers participating in native prairie plant restoration efforts.

Participate in surveys for endangered Oregon spotted frogs and prairie plant communities.

Manage inventory of plants and help to fulfill plant orders.

Coordinate with a variety of partners, including the Washington Department of Corrections, Washington Department of Fish and Wildlife, and various local nonprofit and state restoration organizations.

Create and revamp Microsoft Excel spreadsheets to track lecture attendance and seed germination, and use SAS JMP and PC-ORD for data analysis.

Lead workshops and lectures for inmate audiences on sustainable forestry, nursery techniques, and restoration goals.

Perform public outreach, both directly at events and through photography and videography of nursery activities, inmate work crews, and endangered species rearing protocols.

### **Quality Engineer**

June-Aug 2012. Talent Technology Corporation, Seattle, WA

Assess the quality of results from resume search software.

Provide reports to engineering team.

### **Communications Intern**

July-Aug 2011. Washington Trails Association, Seattle, WA

Website and social media management.

Writing, proofreading, and editing for the website and *Washington Trails* magazine.

### **ADDITIONAL SKILLS**

- Statistical analysis (SAS JMP, PC-ORD)
- GIS spatial analysis (ArcGIS and QGIS)
- Excel (data management + analysis)
- Working proficiency in Spanish