

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

Monitor, maintain, and manage O'Neill Pine Company's 2,000+ acres of timberlands.

Cruise mature timber for volume and young stands to ensure survival.

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

Administer the Registered Neighbors program to allow bow hunting and recreational access to neighbors throughout Lewis and Thurston counties.

Use GIS to map and analyze all properties.

Ensure compliance with Forest Stewardship Council (FSC) regulations.

Perform boundary layout for forestry operations for O'Neill Pine Company and with Northwind Forest Consultants.

Watch for tree health problems, perform or contract maintenance as needed.

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.

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 (10-man) and volunteers participating in native prairie plant restoration efforts.

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

Manage inventory of plants and help to fulfill plant orders.

Communicate with a variety of partners, including the Washington Department of Corrections, the Center for Natural Lands Management, and various local and state restoration organizations.

Lead prison workshops and lectures on sustainable forestry, nursery techniques, and conservation goals.

Staff tables at events and inform the public about the organization's mission.

Photography of events, nursery activities, inmate work crews, and videography of 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