

**Education****University of Minnesota, Minneapolis, Minnesota****Master in Landscape Architecture**

- Landscape Architecture Academic Achievement Award
- Sigma Lambda Alpha Honor Society
- Research Assistant in the Department of Landscape Architecture

**University of Minnesota, Duluth, Minnesota****Bachelor of Arts in Biology****Landscape Ecology Coursework**

- Field Techniques for Landscape Analysis: Implementation of field techniques for site analysis, including vegetation, soil, and landform description
- Landscape Ecology: Study of theory and application of landscape ecology principles
- Restoration and Reclamation Ecology: Review of issues and techniques used in the ecological restoration or reclamation of a site
- Regional Landscape Design: Implementation of geographic information systems (GIS) in the exploration of landscape ecology, landscape perception, and public policy in the decision making process of regional landscape design

**Continuing Education**

- University of MN Wetland Delineator Certification Program: Wetland Delineation Course 2013
- Minnesota Department of Natural Resources: Native Plant Community Identification Workshop on Using The Field Guide to Minnesota's Native Plant Communities 2011
- Minnesota Department of Natural Resources Stream Habitat Program: Fluvial Geomorphology Workshop 2008
- Native Plant Society Class: Minnesota Wetland Plant Identification 2007
- Protecting Water Resources Through Low Impact Development Workshop 2001
- Minnesota Urban Small Sites BMP Manual: Stormwater Best Management Practices for Cold Climates Seminar 2001

**Professional Experience****Habitat: Land & Water Stewardship Services LLC****Landscape Ecologist and Owner****September 2008 to Present**

- Consultant specializing in environmental inventories, natural areas restoration and management, and sustainable landscape design

**Kestrel Design Group****Landscape Ecologist****October 2006 to August 2008**

- Landscape ecologist and project manager responsible for all aspects of project development in a landscape architecture firm specializing in natural areas restoration and management and sustainable landscape architecture

**Wild Ginger Outdoor Design LLC****Landscape Ecologist and Owner****March 2003 to October 2006**

- Landscape ecologist of a landscape design company specializing in native habitat restoration plans, land management plans, and sustainable landscape design

**Great River Greening****Landscape Designer****November 1999 to March 2003**

- Landscape designer for a non-profit promoting community based restoration of natural areas and open spaces

**Project  
Experience****Natural Resource Inventories, Adaptive Management Plans, and Baseline Property Reports**

- Completed Adaptive Management Plans on several sites located throughout the state for the Minnesota Department of Natural Resources Scientific and Natural Areas Program that improve management and sustainability of native plant communities, rare and endangered species, and habitat for Minnesota's Species in Greatest Conservation Need through knowledge of forest and prairie ecology, natural history of forest and prairie systems and their response to natural disturbance regimes and human induced disturbance
- Completed Prairie Stewardship Plans for the Minnesota Department of Natural Resources Prairie Stewardship Program that improved management and sustainability of private native prairie lands and integrated private land management with adjacent public lands through writing that could effectively communicate ecological information at the appropriate complexity to insure the understanding of both landowner and resource manager alike
- Use geographic information systems to analyze and manipulate data to achieve an understanding of the ecological elements and physical processes of a landscape and the conditions and factors that influence them and to inform management priorities and establish and communicate goals
- Completed a Conservation Easement Baseline Property Report for the Minnesota Department of Natural Resources Scientific and Natural Areas Program that required interpretation of information derived from plat maps and legal property information from resources including surveys, designation orders, and conservation easement documents

**Native Plant Community Restoration and Reconstruction**

- Developed an open space plan for a municipality that included a stormwater management system that captured and treated flows prior to entering the Mississippi River, native plant demonstration gardens to educate the public and encourage the use of native plants in the home landscape, and a woodland and prairie community reconstruction plan for a former agricultural field
- Developed and assisted in the implementation of native plant community reconstruction, restoration, and enhancement on sites located within the Mississippi National River and Recreation Area corridor and the St. Croix National Scenic Riverway using plant community goals outlined in the project management plan, planting strategies that replicate natural systems, and the preparation of the site and organization of plant materials for installation by volunteers and contractors

**Shoreline and Streambank Stabilization and Restoration**

- Developed and managed the production of shoreline stabilization plans for public and private landowners using soil bioengineering and native plant community models that improved water quality, increased habitat potential, limited the high number of nuisance wildlife, controlled invasive species, and increased native species diversity
- Developed and managed the production of streambank stabilization plans for watershed districts and municipalities using soil bioengineering and natural channel design techniques such as live stake installation to stabilize erosion, root wads to mitigate bank undercutting, placement of rock veins to center flows and decrease bank erosion, and native plant restoration to stabilize stream banks and provide habitat
- Developed and managed the production of construction details and specifications specific to shoreline and streambank stabilization projects that communicated proper construction and installation of soil bioengineering and natural channel design techniques

**Sustainable Landscape Design**

- Provided creative solutions in developing sustainable landscape designs for private clients using proven design techniques for the creation of elegant and functional spaces and sustainable design practices to conserve water and land resources.

**Knowledge,  
Skills, and  
Abilities****Technical**

- Proficient in the use of Geographic Information Systems to inform landscape level management and as an effective communication tool
- Proficient in the use of AutoCAD for developing plan sets and as an effective communication tool
- Working knowledge of MS Word, Excel, and the Adobe Suite
- Skilled in plant identification with an emphasis on species comprising Minnesota's native plant communities
- Skilled in using the Minnesota Department of Natural Resources "Field Guides to Native Plant Communities" in keying out native plant communities to class and type using Ecological Classification worksheets
- Experience with Minnesota Department of Natural Resources "A Handbook for collecting Vegetation Plot Data in Minnesota: "The Releve' Method" and releve' form
- Experience with Minnesota Department of Natural Resources guideline for natural community element occurrence ranking
- Knowledge of invasive and exotic species and the strategies and methods for their control
- Experience with the ecology of native plant communities (NPC) and the role they play in a functioning ecosystem, the importance of understanding the natural history of a NPC, and how this knowledge will inform management
- Knowledge of utilizing land management practices such as prescribed fire in prairie and forested communities to reach desired conditions
- Experience in watershed analysis including identifying contributors to nonpoint source pollution and utilizing best management practices to remedy negative contributing factors

**Communication and Organization**

- Ability to facilitate presentations and communicate project information to a diverse group of stakeholders
- Ability to effectively communicate technical information orally and through visual and written forms to an audience with a diverse knowledge base
- Ability to lead a team of associates, volunteers, or contractors to successful completion of projects through well organized, clearly defined, appropriately assigned, and supportive project management
- Ability to successively write proposals and fees estimates with clearly specified tasks and deliverables that inform budgeting needs
- Proven ability to manage projects to meet fiscal requirements and established timelines

**Analytical and Creative Thinking**

- Ability to analyze, simplify, and organize complex information to gain insight, direct actions, and discover solutions
- Ability to provide unified, creative, and elegant solutions to projects for a variety of client needs