

Ellen D. Furness

GIS Analyst, Web Developer, Biologist

Personal Info

Skills

ArcGIS Suite, Janus

Biological Research

Web Development

Hobby/Interest

Snowshoeing

Hiking with dog

Working on my portfolio website

Watching PBS documentaries

Continuous Learning -- GIS courses, Web

- **University of Denver, Full-Stack Web Development**
 - **Projects:** Bike station App using JavaScript Web API <https://github.com/bward3/spokes-people.git>
 - **Portfolio:** <https://efurness.github.io/ellen-s-react-portfolio/>
- **Biologist research experience:** Working on projects involving surveying, mapping, and monitoring of ecological resources.
- **Master's Degree of Science, GIS, University of Denver.**
- **ESRI ArcGIS suite.** Graduate project mapping study of Three-toed woodpecker in old growth forests, Rocky Mountains

Work History

2023-03
- present

Associate GIS/Geospatial Analyst

CACI International, Fort Collins

- Collected, compiled or integrated Geographic Information Systems (GIS) data, remote sensing and orthoimagery
- Analyzed still and motion imagery and data

Biologist, Website Developer, GIS

National Park Service, Air Resources Division, Lakewood, CO

- Assisted Webmaster in the design, maintenance, and conversion of the Air Resources Division websites to XHTML using Adobe Dreamweaver/ColdFusion.
- Creating GIS maps, reports and documents.
- Assisted Chief Biologist, air pollution, National Parks

GIS Technician

US Forest Service, Pikes Peak National Forest

- Used aerial photographs, Digital Ortho Quads, Orthoimagery to interpret major vegetation/forest types
 - Turkey Creek watershed
 - Digitized heterogeneous vegetation polygons onto DOQ's GIS Info/Arc Edit Tools
 - Set up Arc Info coverages watershed/riparian/vegetation for final maps
- Collected, verified digitized vegetation maps.
 - Region 2 CSE Common Stand Exams

BAER Team Technical Specialist/Project Leader

US Forest Service

- Burned Area Emergency Rehabilitation (BAER) projects in watershed assessment of burned areas, aerial reconnaissance by helicopter, topographic mapping of treatment sites and hydrophobicity soil testing
- Received certificate for BAER work called Above and Beyond
- As Project Leader and BAER Team Trainee, led technicians in conducting rehabilitation treatment plans that contributed to Final Burned Area Rehabilitation Reports

Website maintenance and design

Colorado College

- Website developer, design and maintenance of
 - Geology Department and Professors' websites.
 - Integrated Solid Earth Sciences (ISES) Antarctica website
- Provided front-end website development using Dreamweaver nand other editing software.

Education

2022-02	Full-stack Web Development, Bootcamp Certificate <i>University of Denver</i> GIS, Geographic Information Systems, M.S. Masters of Science <i>University of Denver</i> Graduate Teaching Assistantship Population Biology, M.S Masters of Science <i>University of Colorado, Boulder</i> Biology, B.A. <i>Colorado College</i> <ul style="list-style-type: none">• Behavioral Ecology of Mammals. Wilderness Field Station in Ely, Minnesota (BWCA).• Worked at the National Institutes of Health genetic research project
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Volunteering

<p>Boulder Flood Relief 2013-2014</p> <p>Production Assistant for Kamchatka Wildlife Documentary</p> <p>Volunteer for Conservation Treaty Support Fund supporting</p> <ul style="list-style-type: none">• CITES Convention on International Trade of Endangered Species Flora and Fauna

Certificates

<p>Full-stack Web Development, University of Denver</p> <p>Burned Area Emergency Rehabilitation, US Forest Service</p> <p>Above and Beyond award, US Forest Service</p>
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