

Ellen D. Furness

GIS Analyst, Web Developer, Biologist

Resume

Skills

ArcGIS Suite, Janus

Biological Research

Web Development

Hobby/Interest

Snowshoeing

Hiking with my 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, 2010

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, 2001

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, 2000

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, 2009

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

University of Denver

GIS, Geographic Information Systems, M.S. Masters of Science, 2006

University of Denver

Graduate Teaching Assistantship

Population Biology, M.S Masters of Science, 1995

University of Colorado, Boulder

Biology, B.A., 1989

Colorado College

- Behavioral Ecology of Mammals. Wilderness Field Station in Ely, Minnesota (BWCA).
- Worked at the National Institutes of Health genetic research project

Volunteering

Boulder Flood Relief 2013-2014

Production Assistant for Kamchatka Wildlife Documentary

Volunteer for Conservation Treaty Support Fund supporting

- CITES Convention on International Trade in Endangered Species of Wild Fauna and Flora

Certificates

Full-stack Web Development, University of Denver

Burned Area Emergency Rehabilitation, US Forest Service

Above and Beyond award, US Forest Service