

# Ellen D. Furness

GIS Analyst, Web Developer, Biologist

## Resume

## Skills

- ArcGIS Suite, ArcGIS Pro
- Biological Research
- Web Development
- Hobby/Interest
  - Snowshoeing and cycling
  - Hiking with my dog
  - Working on my REACT Portfolio
  - Watching PBS documentaries
  - Continuing GIS courses at CU

- **University of Denver, Full-Stack Web Development**
  - **Projects:** Bike station App using JavaScript Web API.
    - <https://github.com/bward3/spokes-people.git>
  - **REACT Portfolio:** <https://efurness.github.io/ellen-s-react-portfolio/>
- **Master's Degree of Science, GIS, University of Denver.**
- **Biologist research experience:** Working on projects involving surveying, mapping, and monitoring of ecological resources.
- **ESRI ArcGIS suite.** Graduate project mapping study of Three-toed woodpecker in old growth forests, Rocky Mountains.
- **Detail-oriented team player** with strong organizational skills managing multiple priorities with a positive attitude.
- **Strong willingness to take on added responsibilities** to meet team goals with accuracy.

## Work History

2023-03 - present	<div><b>Associate GIS/Geospatial Analyst</b> <i>CACI International, Fort Collins, CO</i><ul style="list-style-type: none"><li>• Collected, compiled, analyzed integrated Geographic Information Systems (GIS) data, and orthoimagery.</li><li>• Leveraged skills in modeling, rendering and plotting to visually represent geospatial data.</li></ul></div> <div><b>Biologist, Website maintenance, GIS, 2010</b> <i>National Park Service, Air Resources Division, Lakewood, CO</i><ul style="list-style-type: none"><li>• Assisted Webmaster in the design, maintenance, and conversion of the Air Resources Division websites to XHTML using Adobe Dreamweaver/ColdFusion.</li><li>• Created GIS maps, reports and documents.</li><li>• Assisted Chief Biologist in analysis of air pollution in National Parks</li></ul></div> <div><b>Website Builder, 2009</b> <i>Colorado College</i><ul style="list-style-type: none"><li>• Website design and maintenance of Geology Department websites and the Integrated Solid Earth Sciences (ISES) Antarctica website.</li><li>• Provided front-end website development using Dreamweaver and other editing software.</li></ul></div> <div><b>GIS Technician, 2001</b> <i>US Forest Service, Pikes Peak National Forest</i><ul style="list-style-type: none"><li>• Combined the use of aerial photographs, Digital Ortho Quads, Orthoimagery to interpret major vegetation/forest types for the Turkey Creek watershed.</li><li>• Use of GIS ArcInfo and ArcEdit Tools to digitize heterogeneous vegetation polygons onto DOQ's.</li><li>• Set up ArcInfo watershed/riparian/vegetation coverages and verified final vegetation maps.</li></ul></div> <div><b>BAER Team Technical Specialist/Project Leader, 2000</b> <i>US Forest Service</i><ul style="list-style-type: none"><li>• 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.</li><li>• As Project Leader and BAER Team Trainee, led technicians in conducting rehabilitation treatment plans that contributed to Final Burned Area Rehabilitation Reports.</li></ul></div>
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## Education

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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. GIS graduate projects.

### **Population Biology, M.S Masters of Science, 1995**

*University of Colorado, Boulder*

Graduate teaching assistantship.

Master's Thesis Paper

- ◦ Conservation of Psittacine Species in a Park System.

Independent research of Northern Red-shafted Flickers (*Colaptes auratus*).

- ◦ monitoring of nesting pairs for daily activity levels, foraging behavior and use of feeding sites.

Research Assistant, La Selva Research Station, Costa Rica

- ◦ Group project of individual versus group foraging for the *Paraponia ant.*

### **Biology, B.A., 1989**

*Colorado College*

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

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## Volunteering

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- Boulder Flood Relief 2013-2014
- Production Assistant for Kamchatka Wildlife Documentary
- Defenders of Wildlife
- Volunteer for Conservation Treaty Support Fund supporting
  - CITES, World Wildlife Fund, TRAFFIC

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## Awards

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### **Above and Beyond, US Forest Service**

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## Certificates

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### **Full-stack Web Development, University of Denver**

### **Burned Area Emergency Rehabilitation, US Forest Service**