

# ELLEN D. FURNESS

- **ESRI ArcGIS suite:** ArcCatalog/Map, Spatial Analyst
- **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.

## WORK HISTORY

- **Training -- Geospatial Analyst**

CACI INTERNATIONAL, FORT COLLINS, CO 2023-03 - PRESENT

  - Training in geospatial data and analysis.
  - Janus geograpy
- **Biologist, Web Builder, 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.
  - Created GIS maps, reports and documents.
  - Assisted Chief Biologist in analysis of air pollution in National Parks
- **Website Builder, 2009**

COLORADO COLLEGE

  - Website design and maintenance of Geology Department websites and the Integrated Solid Earth Sciences (ISeS) Antarctica website
  - Provided front-end website development using Dreamweaver and other editing software.
- **GIS Technician, 2001**

US FOREST SERVICE, PIKES PEAK NATIONAL FOREST

  - Combined the use of aerial photographs, Digital Ortho Quads, Orthoimagery to interpret major vegetation/forest types for the Turkey Creek watershed
  - Use of GIS ArcInfo and ArcEdit Tools to digitize heterogeneous vegetation polygons onto DOQ's.
    - Set up ArcInfo watershed/riparian/vegetation coverages
  - Verified final vegetation maps, conducting Region 2 CSE's
- **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.
  - As Project Leader and BAER Team Trainee, led technicians in conducting rehabilitation treatment plans that contributed to Final Burned Area Rehabilitation Reports.

## EDUCATION

- **Full-stack Web Development, Bootcamp, 2022**

UNIVERSITY OF DENVER 2022-02
- **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.

## SKILLS

■ ArcGIS suite

■ JavaScript

■ Full-Stack Web Development, VS Code

■ Microsoft Suite, Parallels, Windows, Mac

■ GitHub

## HOBBY/INTEREST

Snowshoeing and cycling

Hiking with my dog

## VOLUNTEERING

### ■ Boulder Flood Relief

OFFICE WORK

### ■ Kamchatka Wildlife Documentary

PRODUCTION ASSISTANT

### ■ Conservation Treaty Support Fund

DOCUMENTS

### ■ Defenders of Wildlife, World Wildlife Fund, TRAFFIC

RESEARCH ASSISTANT

## AWARDS

■ Above and Beyond, US Forest Service

## CERTIFICATES

■ Full-stack Web Development, University of Denver

■ Burned Area Emergency Rehabilitation, US Forest Service