ELLEN D. FURNESS

- **ESRI ArcGIS Pro, ArcGIS Desktop,** Learning **Python for ArcGIS Pro**
  - **Story Map (ArcGIS):**
    https://storymaps.arcgis.com/stories/32404e9d37564136bb64c1cfc354d9a2
- **Biologist -- Researcher, Project Management/Monitoring of ecological resources.**
- **University of Denver, Full-Stack Web Development**
  - **Projects:** Bike station App using JavaScript Web API, *https://github.com/bward3/spokes-people*
  - **REACT APP:** *https://efurness.github.io/ellen-s-react-portfolio/*

--Organized and dependable candidate successful at managing multiple priorities with a positive attitude. Willingness to take on added responsibilities to meet team goals.

WORK HISTORY

Biologist, Web 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.
- 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

ArcGIS modeling, spatial analyst, Graduate level

UNIVERSITY OF COLORADO, CONTINUING EDUCATION, BOULDER

https://www.colorado.edu/geography/

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

- Training -- Associate Geospatial Analyst, Janus geography

- ArcGIS suite

- Full-Stack Web Development, VS Code, GitHub

- Biologist training

HOBBY/INTEREST

Snowshoeing and cycling
Hiking with my dog
Advanced learning for GIS, Web and Python/JavaScript

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