# **ELLEN D. FURNESS**

- ESRI ArcGIS suite: ArcGIS Pro, ArcCatalog/ArcMap, Spatial Analyst, Learning Python for Arc Pro
- Biologist -- Researcher, Project Management/Monitoring of ecological resources.
- University of Denver, Full-Stack Web Development
  - o Projects: Bike station App using JavaScript Web API, https://github.com/bward3/spokes-people
  - o **Portfolio**: 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

• o Conservation of Psittacine Species in a Park System.

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

- o monitoring of nesting pairs for daily activity levels, foraging behavior and use of feeding sites. Research Assistant, La Selva Research Station, Costa Rica
- o 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**