

# ELLEN D. FURNESS

## SUMMARY

Experience and Graduate work in ESRI ArcGIS Pro/Desktop, Concepts and Technical Analysis

- *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, 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.

### **Production Assistant, Kamchatka Wildlife Documentary, 1999**

SUPERFLOW CORPORATION, MACQUARRIE FILMS

- Office work on logistics and research of wildlife for the Director, prepared supplies.
- Handled administrative tasks for the Director, established communication with Russian counterparts.

## EDUCATION

### **Full-stack Web Development, Bootcamp, 2022, Projects, Challenges**

*University of Denver*

### **ArcGIS modeling, spatial analyst, Graduate-level Continuing Education classes,**

*University of Colorado, Boulder*

### **Geographic Information Systems, M.S. Masters of Science, 2006, Teaching Assistantship,**

*University of Denver*

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

*University of Colorado, Boulder*

### **Biology, B.A., 1989, Research study Behavioral Mammalogy**

*Colorado College*

## APPS

[SPOKES BOULDER APP](#) REACT Rapid API application that presents bike availability at bike stations

[REACT and NEXTjs](#) Portfolio App

[REACT Portfolio project](#) for Full-Stack Web Development bootcamp – University of Denver

[ArcGIS Story Map](#) / [ArcGIS Experience Builder](#)

## SKILLS

- ESRI ArcGIS Pro/Desktop, Learning Python for ArcGIS Pro, Concepts and Analysis
- Story Map (ArcGIS), Experience Builder, Javascript API
- Geoprocessing Tools, Spatial Analyst, Model Builder
- Biological Research, survey experience, technical work
- Front-end Technologies – REACT, NEXTjs, JavaScript, CSS
- Full-Stack Web Development, VS Code, GitHub, Tailwind

## VOLUNTEERING

### **Boulder Flood Relief**

OFFICE, WEB WORK

### **Defenders of Wildlife, World Wildlife Fund, TRAFFIC, Conservation Treaty Support Fund**

RESEARCH ASSISTANT

## AWARDS

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

## CERTIFICATES

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

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

## HOBBY/INTEREST

Snowshoeing, cycling, hiking with my dog