

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 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