

# ELLEN D. FURNESS

## IT SPECIALIST



GitHub



Boulder, CO

### CORE COMPETENCIES

ESRI ArcGIS Pro,

Python for ArcGIS Pro

Jupyter Notebooks

ArcGIS API for Python.  
Geoprocessing Tools

Front-end Technologies  
REACT, NEXTjs, DRUPAL

Tailwind, CSS, Responsive  
design

Full-Stack Web  
Development, JavaScript,  
VS Code, GitHub

Microsoft Suite, Power Bi

### EDUCATION

#### FULLSTACK BOOTCAMP

University of Denver  
*JavaScript, Web Dev.*  
2022

#### MASTERS DEGREE, SCI

University of Denver  
*GIS Science*  
2006

#### MASTERS DEGREE, SCI

University of Colorado,  
Boulder  
*Population Biology*  
1995

#### BACHELORS, SCIENCE

Colorado College  
*Biology*  
1989

### PROFESSIONAL PROFILE

- o ESRI ArcGIS Pro, Python for ArcGIS Pro [Story Map \(ArcGIS\)](#) [Experience Builder \(ArcGIS\)](#).
- o BIOLOGIST: Researcher, Project Management/Monitoring of ecological resources.
- o PROJECTS: [Bike station](#), [Rapid API application](#) of bike availability at stations.  
[REACT, NEXTjs Portfolio APP](#) Front-end web development. [REACT](#) Bootcamp Portfolio
- o EXTRACURRICULAR ACTIVITY: Graduate Level GIS courses, University of Colorado,  
Boulder Flood Relief, Conservation Support Fund, TRAFFIC, Defenders of Wildlife.

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

### PROFESSIONAL EXPERIENCE

#### IT SPECIALIST, DATA TEAM

FEB 2025 - PRESENT

##### *EPA REGION 8 DRINKING WATER*

- o Lead Power Bi Desktop and Service projects for water systems, Power Automate.
- o Develop and maintain EPA Drinking Water Online and Watch websites.
- o Provide technical assistance and training to Rule and Inventory specialists.
- o SDWIS Database management, MS Access, Oracle DBMS, MS SQL Server.
- o Develop SOP's and reports.

#### BIOLOGIST, WEB DEVELOPER

APRIL 2004 - JAN 2010

##### *NATIONAL PARK SERVICE, AIR RESOURCES DIVISION*

- o Assisted Webmaster in the design, maintenance, and conversion of the Air Resources Division websites to XHTML using Adobe Dreamweaver.
- o Created GIS maps, reports and documents.
- o Assisted Chief Biologist in analysis of air pollution in National Parks.

#### WEBSITE DEVELOPMENT

MAR 2003 - DEC 2009

##### *COLORADO COLLEGE, GEOLOGY DEPARTMENT*

- o Website design and maintenance of Geology Department websites and the Integrated Solid Earth Sciences (ISES) Antarctica website.
- o Provided front-end website development using Dreamweaver and other editing software.

#### GIS TECNICIAN, BAER TEAM TECHICAL SPECIALIST

JAN 2000- DEC 2001

##### *UNITED STATES FOREST SERVICE*

- o Combined the use of aerial photographs, Digital Ortho Quads, Ortho-imagery to interpret major vegetation/forest types for the Turkey Creek watershed.
- o Use of GIS ArcInfo and ArcEdit Tools to digitize heterogeneous vegetation
- o Set up ArcInfo watershed/riparian/vegetation coverages.
- o Burned Area Emergency Rehabilitation Projects: Watershed assessment, Project Leader and BAER Team Trainee, led technicians in conducting rehabilitation treatment plans that contributed to Final BAER Reports.

#### PRODUCTION ASSISTANT, KAMCHATCHA WILDLIFE DOCUMENTARY 1999 - 2000

##### *SUPERFLOW CORPORTION, MACQUARRIE FILMS*

- o Handled administrative tasks for the Director, established communication with Russian counterparts, conducted wildlife research, prepared supplies.