

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,
Power Automate

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

- ESRI ArcGIS Pro, Python for ArcGIS Pro [Story Map \(ArcGIS\)](#) [Experience Builder \(ArcGIS\)](#).
- BIOLOGIST: Researcher, Project Management/Monitoring of ecological resources.
- PROJECTS: [Bike station, Rapid API application](#) of bike availability at stations. [REACT, NEXTjs Portfolio APP](#) Front-end web development. [REACT](#) Bootcamp Portfolio
- 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

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

BIOLOGIST, WEB DEVELOPER

APRIL 2004 - JAN 2010

NATIONAL PARK SERVICE, AIR RESOURCES DIVISION

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

WEBSITE DEVELOPMENT

MAR 2003 - DEC 2009

COLORADO COLLEGE, GEOLOGY DEPARTMENT

- 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 TECNICIAN, BAER TEAM TECHICAL SPECIALIST

JAN 2000- DEC 2001

UNITED STATES FOREST SERVICE

- Combined the use of aerial photographs, Digital Ortho Quads, Ortho-imagery to interpret major vegetation/forest types for the Turkey Creek watershed.
- Use of GIS ArcInfo and ArcEdit Tools to digitize heterogeneous vegetation.
- Set up ArcInfo watershed/riparian/vegetation coverages.
- 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, KAMCHATKA WILDLIFE DOCUMENTARY

1999 - 2000

SUPERFLOW CORPORATION, MACQUARRIE FILMS

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