

# Ingrid French

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(650) 765-4321

## Summary of Qualifications

- Performed plant and soil surveys as a technician for the Bureau of Land Management's Assessment, Inventory, and Monitoring (AIM) program in the southwest region of the United States.
- Demonstrated ability and year of experience to safely conduct silvicultural prescriptions on chainsaw crew with Arizona Conservation Corps to accomplish a plethora of projects for stakeholders.
- Bachelor of Science in Environmental and Sustainability Studies with a Certificate of International Forestry and Conservation alongside extensive coursework and academic accomplishments.
- Hands-on experience identifying plant species, marking species for removal, measuring diameter and height of timber, and checking for defects in timber.
- Basic understanding of preparing, processing, and interpreting data using R programming language.

## Seasonal Work Experience

### Canyon Dave Tours

#### *Tour Guide*

June 2021 – Present; \$1,280 bi-weekly; 40 hours per week

Supervisor Contact – Dave Canyon (318) 311-6906

611 S 10<sup>th</sup> St Williams, AZ 86046

### Duties, Accomplishments and Related Skills

- Provided information to the public about Grand Canyon National Park ecology, history, and programs.
- Answered customer questions and ensured customer needs were met effectively on day-long driving tours along South Rim of Grand Canyon National Park.
- Provided information regarding recreation opportunities and park resources.
- Single handedly updated online client reservation and employee scheduling system from twenty-year old system to a collaborative spreadsheet.
- Provided geological information daily in oral format through twenty-minute speech.
- Collected payment from customers, processed receipts and refunds.
- Provided end of day tour report with records of travel mileage, drive time, and receipts from customer payment, entry fee, lunch, and gas.

### Southwest Conservation Corps / Bureau of Land Management

#### *AIM Ecological and Vegetation Monitoring Crew Member*

June 2020 – October 2020; \$1,040 bi-weekly; 40 hours per week

Supervisor Contact – Michael Vegetation (316) 564-4115

29211 CO-184, Dolores, CO 81323

### Duties, Accomplishments, and Related Skills

- Conducted plant and soil surveys using the Bureau of Land Management's Assessment, Inventory, and Management (AIM) protocols for savannah and rangeland ecotypes.
- Created maps for worksites using ArcGIS, exported to Avenza maps, and loaded them on tablets.
- Identified trees, shrubs, and unknown plant specimens to the species level using dichotomous key, hand lens, and microscope in both the field and office.
- Utilized compass and Android tablet in the field to navigate to plot using ArcGIS, Avenza, and aerial satellite maps.

- Utilized a compass and tape measures to establish three transects at each plot.
- Measured and recorded vegetation height along transects for herbaceous and woody species using avalanche pole.
- Utilized a compass and clinometer to determine slope and aspect of plot.
- Ensured integrity of data using Quality Control and Quality Assurance methods.
- Assessed species richness and diversity in area, noting unknown plant species to collect and identify.
- Performed the line-point intercept method to gather and record data estimating vegetation cover.
- Measured and recorded canopy gaps to establish bare ground cover.
- Learned fundamentals of how to process data from ArcGIS into R for analysis and presentation.
- Entered USDA plant code data into online ArcGIS database and Excel spreadsheets.
- Entered AIM data onto handheld Android tablets using Collector, Survey 123, and Avenza software.
- Uploaded data from tablets into ArcGIS online.
- Performed several geological tasks including digging soil pits using soil auger, identifying soil horizons, describing and measuring soil structure, assigning soil color according to the Munsell Color System, hand texturing soils using the USDA Soil Texture Triangle, determining soil effervescence using Hydrochloric acid, and collecting and testing soil peds to quantify soil stability.
- Completed plot observation forms that assessed disease, pests, fire, recent disturbances, grazing, and wildlife use.
- Noted gullies, rills, water flow patterns, pedestals, exposed roots, soil deposition, and sheet erosion to quantify soil erosion on site.
- Captured photos of transects using tablet at standardized distance and height.
- Conducted work around sensitive archaeological sites without causing disruption to artifacts/structures.
- Collected and pressed plant specimens to be compiled into a physical herbarium.
- Added photos and descriptions to online herbarium for the Tres Rios Field Office.
- Completed daily safety check ins using Garmin InReach while in field.
- Camped for up to four days in remote areas and hiked up to six miles per day with heavy packs.
- Worked through extreme weather conditions, particularly heat and cold.
- Safely operated 4x4 vehicle on rugged roads and highways.
- Functioned as a part of a three-person team and maintained positive relations, crew culture, and work ethic in order to complete trip and organization mission and tasks.
- Adhered to Southwest Conservation Corps' COVID-19 policies.

### Arizona Conservation Corps

#### *Verde Valley Chainsaw Crew Member*

August 2019 – March 2020; \$590 bi-weekly; 40 hours per week

Supervisor Contact – Emily Verde (837) 338-2553

2500 N Rose Street, Ste 101 Flagstaff, AZ 86004

### Duties, Accomplishments and Related Skills

- Accomplished a plethora of projects for the Friends of the Verde River, Bureau of Land Management, and Forest Service.
- Conducted silvicultural prescriptions on chainsaw crew.
- Scouted ahead of crew to mark tree species for removal using satellite map as reference.
- Felled timber that had been marked for removal.
- Checked trees for defects such as disease, pests, and hazards like hanging dead branches or standing dead wood that appeared alive.
- Determined tree height to ensure correct felling path.
- Performed Quality Control of harvest unit by walking perimeter with handheld tablet and Avenza Map.

- Obtained Wilderness First Aid, CPR, and A-level chainsaw certifications.
- Operated chainsaw to perform invasive species removal, fuel reduction, and ecological restoration on a variety of Pine, Juniper, Tamarisk, and Oleander species.
- Followed safety standards and utilization of personal protective equipment while operating chainsaw.
- Accomplished Arundo, Ailanthus, and blackberry removal through use of pick-mattock, hand saw, single jack, hand pulling, and loppers.
- Safely mixed, prepared, and applied the herbicides Glyphosate, Imazapyr, and Triclopyr while doing so with proper personal protective equipment and application methodology.
- Recorded daily logs recording number of species removed and amount of herbicide applied.
- Used Android tablet and Survey123 to record cloud cover, temperature, and wind speed.
- Established a foot trail along a historic irrigation canal using McCleod, shovel, and pick-mattock.
- Utilized reciprocating saw to construct erosion control dams composed of juniper branches and stones near archaeological sites.
- Constructed a rock dam to reduce sheet erosion in the Colorado River Watershed.
- Filled in a sink hole caused by a historic mine by utilizing rebar and expanding foam.
- Repaired a concrete vehicle barricade near a wildlife preserve by using tow strap, 4x4 vehicle, rock bar, and shovel.
- Established a fence between a road and dangerous canyon caused by rapid erosion using rebar, wire, and post driver.
- Established Carsonite trail signs using post driver, and ensuring signs were labelled correctly using Avenza maps.
- Updated outdoor kiosks by painting wooden beams with latex protective sealant and replacing worn out coverings on educational signs.
- Camped up to eight days on site and hiked up to ten miles per day with pack and 30lb saw.
- Worked thorough extreme weather conditions including cold, rain, and snow.

## **Education**

### Northern Arizona University – Flagstaff, AZ

Graduated May 2018, 120 Semester Hours

Dean's List Spring 2015, Fall 2015, Fall 2017, Spring 2018

NAU Merit Tuition Scholarship Fall 2013 – May 2018

Sigma Alpha Lambda National Leadership Society

GPA: 3.4

### Bachelor of Science in Environmental and Sustainability Studies

Emphasis: Global Sustainability

Certificate: International Forestry and Conservation

### Coursework Directly Related to This Position: Total of 24 Credit Hours

- ENV 181, Environmental Sustainability, 3 Credit Hours
- ENV 230, Fundamentals of Environmental Science, 4 Credit Hours
- FOR 240, Intro to Conservation Biology, 3 Credit Hours
- FOR 381, Forest Ecosystem Management, 3 Credit Hours
- ENV 326, Essential Ecology, 3 Credit Hours
- ENV326L, Essential Ecology Lab, 1 Credit Hour
- FOR 415, International Forestry, 3 Credit Hours
- ENV 490C, Senior Seminar in Environmental Science & Sustainability, 3 Credit Hours

## Capstone Project – Community and University Public Inquiry – Grand Canyon Trust

- Contributed to the Grand Canyon Trust’s Community and University Public Inquiry (CUPI) program.
- Helped create an ArcGIS story map of water in the Grand Canyon.
- Performed research on the potential for developmental growth in Tusayan, Arizona to impact spring ecosystems in the Grand Canyon.
- Performed interviews to gather public opinions and narratives on the topic of water and springs in the region.
- Lead a group of four multidisciplinary students in assessing the effectiveness of the Grand Canyon Trust’s Film Screening Kit for the short film “Too Precious to Mine” (the content of which relates to previous independent research conducted).
- Organized three events using the Film Screening Kit as a guide and provided feedback to the Grand Canyon Trust on what worked and what could be improved upon.
- Created informative handouts to accompany the film at screenings.
- Collected surveys from event participants to assess effectiveness.
- Functioned as spokesperson by introducing the film at events.

## **Volunteer Experience**

### Momentum Aerial & Dark Sky Aerial; Fall 2015 – Present

Supervisor Contact – Joan Sky (327) 575-9759

Instructed aerial dance for youth and adult classes.

- Painted murals safely from high scaffolding using spray paint, extended rollers, and brushes.
- Painted floorboards, staircases, and trim of doors cleanly with no supervision.
- Installed wooden flooring, and lighting fixtures.
- Routinely cleaned mirrors, floors, restrooms, office, and employee areas.
- Collected and removed trash and recycling.
- Ensured student safety by practicing proper rigging and spotting techniques.
- Encouraged and mentored students through emotional support and one-on-one direction.
- Performed aerial rope for the show “OPIA,” in which a portion of the ticket funds were donated to Grand Canyon Wolf Recovery Project.
- Performed stilt walking during a World Elephant Day parade, raising awareness and educating about the near extinctions of several species of elephants.
- Performed harness dance during the show “TILT” which was adapted to a virtual format and served as a fundraiser for the Flagstaff Family Food Center.
- Promoted and performed in an annual Valentine’s Day show “Hungry Hearts Cabaret” that was free for NAU students and featured an educational panel of relationship and intimacy experts.

### Fossil Free NAU; Fall 2015 – Spring 2018

- Volunteered in this student-led organization that aimed to encourage the university to divest from fossil fuel energy sources and collected signatures to assist with agenda.
- Managed Fossil Free NAU’s social media presence specifically through the use of Instagram.
- Helped organize and promote rallies, protests, and events to educate about fossil fuels.
- Conversated with students on all sides of the issue, having productive and meaningful conversations with those who were unaware of our mission, as well as those who opposed divestment.

### Green NAU; Fall 2015 – Spring 2018

- Began an initiative to provide tree-protection to slackline athletes on campus.
- Promoted events such as the Better World Seminar Series, Sustainable Music & Arts Festival, and

Community Clean-Ups by speaking in front of classes and distributing fliers.

- Created banners to hang at Green NAU events.
- Performed fire spinning at Green NAU's Earth Day celebration.

Willow Bend Environmental Education Center; Spring 2017

- Volunteered for children's educational events on the topics of fauna, flora, and water systems in the Colorado Plateau Region.
- Hosted a wildlife guessing game for kids at the Flagstaff Arboretum's annual plant sale.
- Assisted with entomologist presentation and activities.
- Tabled on behalf of Willow Bend at Pine Forest Charter School.

International Student Exchange Program (ISEP); Fall 2016

- Spoke as a panelist during an informational Q&A session with prospective exchange students at the annual ISEP Study Abroad Fair.
- Tabled for ISEP during on-campus events.

**Interests**

Aerial dance, gardening, landscaping, rock climbing, mountain biking, paddle boarding, backpacking, ballet, yoga, meditation, houseplants, cooking, sci-fi books, table-top games.