

# Kailee Jean Brown Dow

## Relevant work experience

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**Biological Science Technician** | National Park Service | Boston, MA  
**Series:** 0404 - **Grade:** 07

**06/2025 - 10/2025**  
**Hours per week:** 40

- Lead field operations in various resource activities involving the integrated management of invasive plant species, habitat restoration, and data management working with many stakeholders and partners.
  - Certified MA Pesticide Applicator License obtained and use of backpack sprayers and herbicide, used proficiently.
  - Performed NEPA and other compliance requirements for projects within park boundaries.
  - Collected data on marine invasive species in the Boston Harbor, submitted to the state agency of MA, Office of Coastal Zone Management, MIMIC.
  - Interacted with volunteers and the general public in a educational manner with a focus on stewardship activities.
  - Participated in NPS Rocky Intertidal Monitoring Surveys, monitoring intertidal plant and animal species.
  - Participated in bat surveys as apart of NPS compliance requirements.
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**Biological Science Technician** | National Park Service | Key West, FL  
**Series:** 0486 - **Grade:** 07

**12/2023 - Present**  
**Hours per week:** 40

- Conducts and led SCUBA based surveys, data collection, specimen collection, deployment and maintenance of field instruments/equipment.
  - Conducts coral restoration and disease monitoring, intervention, and treatment activities.
  - Maintained NPS infrastructure (dive gear, field/lab equipment, sensor arrays).
  - Field experiences working with Threatened and Endangered birds, marine invertebrates, and sea turtles.
  - Monitored coral nursery habitat conditions to determine compliance with standards and guidelines.
  - Assists with developing project plans related to aquatic species and habitat improvement.
  - Identify safety training needs to address individual or program improvements.
  - Data entry, research, QAQC, and report writing and analysis.
  - Assists with production of data summaries for reporting/permits/publications/grants.
  - Developed a data base for terrestrial marine debris inventory.
  - Work is performed in areas with considerable walking, bending, swimming, and diving terrain. Capable of carrying heavy equipment (about 50 pounds) for long periods and manipulating diving gear in a safe manner.
  - Works cooperatively with external state and federal agencies, such as USGS and FWC, to manage aquatic species and resource management related work.
  - Taking part in Queen Conch and seagrass monitoring activities with observations, gathering data, and reporting findings within a written report or environmental analyses.
  - Volunteered 10 + hours at NOAA Eco-Discovery Center speaking to the public about conservation topics.
  - Capable of negotiating with individuals to resolve conflicts, disputes, or grievances. Operational Leadership training 2018 and 2025.
  - Completed NPS Blue Card and MOCC Training. Over 95 scientific dives logged in the NPS Dive Management System (2025 alone) Operator of 26' research Whaler and 33' Munson with front loader,
  - Completed the written and practical portion of Maintenance Diving. Aided the NPS Maintenance Dive Team with park buoy installations.
  - Created NPS standard operating procedures (SOP) for using MOTE Marine Lab's BleachWatch program at the park. Conducted in-water coral bleaching training for NPS interns.
  - Current on first aid, AED, CPR, and O2 certifications.
  - Participated in local community events as a uniformed NPS ranger, answering questions about the park.
  - Attended monthly brainstorm social media meetings and contributed photos and write ups concerning events and resources at the park.
  - Aided other park divisions with essential park tasks such as, fee collection, gasoline and diesel transfer, compost toilet transfers, garbage collection.
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**Ranger of Interpretation** | National Park Service | West Glacier, MT  
Series: 0025 - Grade: 05

**05/2023 - 10/2023**  
**Hours per week: 40**

- Research, develop and present a variety of programs and interpretive materials including guided walks, illustrated talks (PowerPoint amphitheater and campfire programs) and demonstrations to describe scientific information to a general audience.
  - Assisted in special projects (star party, school groups).
  - Develop programs using principles of the NPS thematic interpretation model through topic research, familiarity with and creative use of delivery techniques.
    - Provided information, interpretation and orientation to the public in visitor centers, ranger stations, historic sites, and while roving in the field pertaining to cultural, historical, and natural science topics to answer questions, stimulate interest and appreciation.
    - Actively promote the safety of park visitors and stewardship of park resources in all interactions, and serve as the initial contact for accident reporting and emergency assistance. I direct customers with problems, questions, or complaints to the appropriate person while serving as a front-line representative of the NPS. Assists with Search and Rescue efforts.
    - Frequently communicate with educational groups, the public, and the community which includes people of various ages and cultural backgrounds.
    - Utilized a variety of appropriate interpretive techniques and principles that focus on audience-centered engagement, metaphors, storytelling, and analogies to deliver information to diverse audiences providing opportunities for the audience to contribute to resource meanings.
    - Conduct research for the educational purposes to verify facts and answer questions.
    - Conducted basic, independent research of scientific, technical, and historical sources for the purpose of providing interpretive programs, both informational and educational.
    - Completed Operational Leadership training to conduct field work safely. I actively mentor team members by providing guidance and feedback. I use principles of Operational Leadership to conduct fieldwork safely.
    - I utilized interpretive principles (such as tangible resources, intangible resources, universal concepts) to facilitate connections between the interests of the audience and their surroundings.
    - Performed opening and closing procedures for an information center using computer software, word processing, and data entry as well as other standard office equipment such as a telephone, photocopier, and laminator to accomplish work.
    - Frequently used multimedia (such as audio-visual equipment, and computer software) to create informational presentations and products.
    - Promoted the NPS's programs and services to encourage public interest and assess customer needs to provide appropriate level of information and assistance.
    - Observed interpretive programs and provided constructive feedback to my peers.

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**Customer Experience Specialist** | Diventures | Lincoln, NE

**06/2022 - 10/2022**  
**Hours per week: 30**

- Actively engaged and participated verbally and in writing during meetings and provide written summary to group for documentation.
  - Filtered and assisted with customer requests in person and over the phone.
  - Assisted scuba classes in a confined pool and classroom setting.
  - Capable and dependable member of an office setting, comfortable with administrative tasks.
  - Tested and maintained a chlorine dive tank
  - Certified with appropriate agencies to fill pressurized cylinders and teach scuba diving.
  - Current in first aid/CPR and O2 administration.
  - Dry-suit certified.

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**Butcher Assistant and Farm Hand** | Treebird Farms | Trout Lake, WA

**03/2021 - 12/2021**  
**Hours per week: 30**

- Responsible for set up, clean, and care of butcher equipment.
  - Assisted and maintained production records, animal environment, and sanitary conditions kept in accordance with modern USDA standards with the processing of chicken, pork, and beef products.
  - Responsible for farm hand tasks such as feeding and watering pigs and livestock.
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- Conducted coral restoration and coral disease monitoring, intervention, and treatment using PVC coral trees that were anchored into the sea floor and buoyed up into the water column for optimal coral growth.
- Species of *Acropora* spp, *Pseudodiploria* spp, and *Montastraea* spp. grown in laboratory setting and then relocated out to transect location, off shore. Periodically kept clean of algae and invasive growth or *diadema antillarum*.
- Evaluated for disease and treated with antibiotics or removed from sample. When growth exceeded space on PVC coral tree, procedure was followed to remove and relocate coral structures out to the reef and cemented in location.
- Identify native and non-native plant and animal species from South Florida/Caribbean using a taxonomic key.
- Navigated training material creation, edits, and reviews by photographs and video production.
- Collaborated with other contractors as well as internal staff on the creation of a mutual training online platform.

- Serve as an integral member of a dive operation to instruct new scuba divers on safe diving practices in the classroom, confined waters, and open water settings.
- Resolve difficult problems associated with the collection, remittance, and deposit of fee revenue.
- Provide informal and formal orientation for diving guests in dive center, classroom, and on a boat.
- Lead guided tours underwater with dive briefings debriefings given before and after the dive.
- Provided dive visitors with NOAA Blue Star interpretation of the National Marine Sanctuary.
- Handle shop business using Microsoft Word, Outlook, Constant Contact, and Excel documents.
- PSI/PCI certified to work on high and low pressure cylinder valves.
- Knowledge and use of high and low pressure cylinder air and Nitrox manufacturing.
- Nitrox instructor certified.
- Work as crew aboard a 26-foot vessel.

- Conducted recurring in-water activities related to the monitoring, management, and restoration of ESA listed species, invasive species, population dynamics, ecosystem relationships, sensitive habitats, and public health and safety issues.
- Removed marine debris from underwater and marine habitats while collecting data related to quantity, source and impact.
- Operated and participated in the care and maintenance of motorized vessels used in marine and aquatic resource management projects.
- Identified marine organisms (e.g., corals, fish, turtles, seagrasses, invertebrates) of the Western Atlantic/Caribbean region and terrestrial organisms (e.g. plants, reptiles, small mammals, ect.)
- Completed American Academy of Underwater Sciences (AAUS) certification with FWC as certifying agency. Completed over 100 scientific dives from September 2018 to June 2019.
- Installed and maintained mooring buoys and aids to navigation following established SCUBA and free-diving protocols (e.g., NPS, OSHA working diver, and PADI).
- Responsible for data entry, research, and report writing of Lionfish data including GIS information to perform tasks such as navigating, locating field plots, and mapping. Collected and organized field data using standardized data collection procedures and equipment.
- Installed, operated, maintained, and made simple repairs to resource management equipment (e.g., GPS instruments, tools, traps, and sampling, monitoring, photographic, and laboratory equipment).
- Provided information to other employees, partners, and research partners on Lionfish resource status, mitigations efforts, and education opportunities within the community. Downloaded and cataloged data from portable devices such as digital cameras, GPS receivers, and data loggers.
- Coordinates logistics and support with scientists from academic institutions, co-workers, volunteers, project personnel, the NPS, the Florida Fish and Wildlife Conservation commission, and USGS.
- Ensured field plans and project protocols were implemented in a safe manner, routinely checking and evaluating working conditions in underwater environments, rough seas, inclement weather, and in preparation for tropical storms and hurricanes.

- Utilized a variety of computer programs to compile, reduce, store, retrieve, analyze, and report scientific data and other resource management information, including for research and long-term monitoring projects. Maintained and organized computer databases in Microsoft Excel and Access.
- Collected, organized, stored, retrieved, analyzed, reported, and mapped GPS and GIS data using a variety of GPS instruments and software. Used a variety of computer programs to compile, reduce, store, and retrieve data and other information from research, assessment, and long-term monitoring projects.
- Engaged in SCUBA diving and free-diving to conduct field work and collect data. Conducted daily dive briefs prior to and after diving, including emergency evacuation plans and facilities.
- Organized, scheduled, and executed a wide variety of established natural resource management projects. Planned field projects, independently choosing from among several possible courses of action at different stages of each project (e.g. selects site locations, sampling techniques, appropriate equipment, logistics, etc.).

**Biological Science Technician** | National Park Service | Corpus Christi, TX

**03/2016 - 08/2018**

**Series: 0486 - Grade: 04**

**Hours per week: 45**

- Work independently as well as part of a team to mitigate vehicle assessable beaches for nesting endangered Kemp's Ridley sea turtles within Padre Island National Seashore. Worked on NPS Sea turtle federal permit.
- Volunteered to participate in the aid of training first-season employees. Assisted training in tagging, sampling, vehicle maintenance, and park protocols.
- Operate and general-use maintenance of government equipment in a demanding environment, sand dunes, salt spray, debris ridden etc.
- Effectively preform work duties while stationed over-night in a remote project field house.
- Provided advice, assistance, and training to students, student conservation assistants, and volunteers involved in resource management projects and field research.
- Assist visitors with questions concerning park regulations, tide information, interpretation for sea turtle science, and general first aid needs. I was a part of a productive team that kept up the appearance of the National Parks Service.

**Avian Technician** | Western Ecosystems Technology | Cheyenne, WY

**12/2014 - 02/2016**

**Hours per week: 40**

- Work safely in remote environments such as muddy roads, inclement weather, snow drifts, ect. to identify and document endangered and threatened wildlife species of birds and bats in the field.
- Preformed bird count and mortality bat count surveys around wind energy facilities.
- Complete data sheets with weather and wind speed information that outlined information I obtained from the field. These data sheets were then emailed in on a weekly basis.
- Use Global Position Systems (GPS) to record location data.
- Represent an organization on a regular basis and work with an array of broad cooperators including landowners, wind technicians, and personnel from the contracting company.

**Visitor Services and Biology Technician Internship** | U.S. Fish and Wildlife Service | Bayview, TX

**10/2013 - 05/2014**

**Series: 0401**

**Hours per week: 40**

- Staffed information counter in National Wildlife Refuge visitor center.
- Received location information over the telephone of all-risk incidents and notified a higher level employee or supervisor to provide responses.
- Performed assignments in accordance with all NPS and U.S. Treasury regulations governing the handling of government funds.
- Served as a front-line, representative of the NPS, answering visitor questions and explaining the area's recreational opportunities, including NPS interpretive service, concession operated facilities and services, hiking trails, and events.
- Informed supervisor of logistical support activities and called dispatch for additional resources as instructed by my supervisor. Basic knowledge of standard dispatch procedures and guidelines used in the dispatch of personnel, equipment and supplies for incidents. Responded to resource requests from other dispatch offices.
- Collected harvest data during the 2013/14 hunt season and input data into computerized databases as well as maintain records for the biologist to generate reports.
- Able to communicate orally and in writing in a clear and concise manner to handle all hunt inquiries as well as educate the public on hunting procedures.

- Capable of performing work in the field involving regular and recurring exposure to extreme weather conditions and terrain, poisonous plants, venomous animals, and biting insects.
- Employed the use of herbicides to control invasive plants while utilizing proper PPE such as protective clothing/gear such as boots, goggles, and gloves.

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Creel Clerk | Nebraska Cooperative Fish and Wildlife Research Unit | Lincoln, NE

04/2012 - 08/2012

Hours per week: 40

- Communicated effective spoken surveys of angler pressure on newly established State Recreational Area.
- Provided additional information to visitors about the watershed project.
- Used and maintain data sheets for input into Access database.
- Maintained a certification with MOCC to operate, clean, and store boats for use in data collection.
- Performed risk assessments for Aquatic Invasive Species (AIS) presence on boats, boating equipment, and boat trailers based on knowledge of AIS biology and transmission modes.
- Capable of assisting in the use of chemical treatments for invasive aquatic species.

## Education, certification or licensures

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University of Nebraska | Lincoln, NE

Bachelor's of Science degree

Credits Earned: 130

Major: Fisheries and Wildlife | Minor: Environmental Sciences

## Job-related training

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- Department of Interior, Motorboat Operator Certification Course.
  - July 21, 2016
  - March 14, 2024
- NPS Blue Card Certified, scientific diver.
- AAUS 60' (100' certified at one point in time)
- Scuba Cylinder inspection certified.
  - April 19th, 2024
- SSI (Scuba Schools International) certified Open Water Instructor.
  - June 24, 2018
  - Pro #58968

## Language skills

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Spanish

Spoken: Intermediate | Written: Novice | Read: Intermediate