

**Online Tutor**

- Provide homework help and project support, report editing in GIS and remote sensing

**GIS Analyst, Scott Air Force Base, IL**

- Develop data and corresponding metadata; provide GIS support.

**Spatial Ecologist/Assistant Professor, NMSU/USDA**

- Manage, organize, and manipulate GIS data, imagery, relational databases, related tables, and attachments.
- Develop and implement workflows to manage and maintain data integrity.
- Classify imagery Design and create standard map templates and maps for field use, publication, and project support.
- Instructor, Fundamentals of GIS, (as Affiliated Faculty, Dept. of Geog.)

**Senior GIS Specialist, Miratek**

- Classify imagery using eCognition software to identify remnant grasslands and to estimate the degree of shrub invasion on Ft Bliss Military Base.

**Graduate and Teaching Assistant, Dept. of Geography, NMSU**

- Thesis Project: Analyze telemetry data and vegetation characteristics using Python scripts and R statistical software to investigate spatial distribution of African wild dogs in the Okavango Delta, Botswana.
- Classes taught: basic and advanced GIS, modeling, aerial photo interpretation; Instructor: physical geography.

**Terrestrial Ecologist, Nature Conservancy, White Sands MR, NM**

- Create and maintain testing and training sites database for use of U.S. Military weapons testing.
- Develop, and train others on the use of, data dictionaries for GPS data.

**Environmental Consultant, NMSU/USDA**

- Conducted bird and mammal surveys in a desert grassland, managed data.

**Senior Research Associate, South Florida Water Management District Everglades Systems Research Division, West Palm Beach, FL.**

- Mist-netted birds and conducted bird surveys on tree islands and in marshes
- Assisted in data collection and management; analyzed data using SAS

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**Laboratory Coordinator, Dept. of Biology, NMSU**

- Collected transect data, maintained experimental treatment
- Ran statistical analyses, and managed data.
- Organized and maintained laboratory, supervised student data collection

#### **Field Research Assistant**

- Supervised nest monitoring scheme for several hundred avian nests.

#### **Ecology Thesis Research**

- Conducted experiments to investigate the effects of ungulate herbivory on the paternal fitness in *Ipomopsis aggregata*.
- Methods included hand pollinations, pollen and seed collection and counts, and seed and pollen viability assessments.
- Conducted isozyme genetic analyses to measure paternal fitness.

#### **Research Assistant**

- Tracked radio-tagged desert tortoises in Mojave Desert to examine population dynamics and natural history.
- Co-wrote an ecosystem management plan for military bases.

#### **Teaching Assistant**

- Designed and taught laboratory for ornithology class; organized field trips, wrote lectures, and taught visual and audio bird identification.

#### **Research Assistant**

- Supervised set-up and organization of a DNA fingerprinting laboratory. Conducted DNA extractions and ran gel analyses of *Bufo americanus*.

#### **Field Assistant**

- Conducted songbird censuses for a study examining habitat preference of grassland birds in central Saskatchewan prairies.
- Tracked radio-tagged blue-winged teal to examine female breeding behavior.

#### **Research Assistant**

- Monitored bird nests, mist netted and banded songbirds, assessed breeding status and survivorship.

#### **Animal Care Intern/Veterinary Technician**

- Maintained and studied several breeding wolf and ungulate species.
- Assisted veterinarian in animal immobilizations and surgery. Analyzed blood and fecal samples. Maintained laboratory, developed radiographs.
- Collaborated on study on social structure of addax antelope and the effects of inbreeding and loss of genetic variability.

#### **Research Assistant**

- Mist netted and tracked radio-tagged thrushes for migration study.