

Cole Knaus

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EDUCATION

University of Minnesota, Minneapolis, MN Sep 2020-May 2023

Bachelor of Science in Fisheries, Wildlife, and Conservation Biology

- Emphasis: Wildlife
- Dean's List Sep 2020-May 2023
- Specialized courses: GIS for Natural Resources, Conservation Genetics, General Botany, Biometry, Preparing Research Proposals, Technical and Professional Writing, The Insects, Vegetation Sampling, Ecology, Zoology

RESEARCH EXPERIENCE

US Geological Survey, Bloomington, MN Jun 2023-Oct 2023

Rusty Patched Bumble Bee eDNA Technician

- Conducted field work to estimate occupancy of the endangered Rusty Patched Bumble Bee at new locations across Minnesota and western Wisconsin
- Collected eDNA samples and performed bumble bee visual encounter surveys
- Trained eDNA sampling methods to project participants
- Created study maps of survey areas using QGIS and followed maps to set survey locations
- Identified flowering plants to quantify Rusty Patched Bumble Bee flower preferences
- Performed data entry and QA/QC of eDNA and occupancy survey data in Excel

Jumby Bay Hawksbill Project, Long Island, Antigua Sep 2022

JBHP Research Assistant

- Carefully monitored Jumby Bay for nesting Hawksbill Sea Turtles from 8PM to 5AM in varying conditions such as rain, heat, and biting insects
- Documented data of nesting sea turtles including carapace measurements, shoreline measurements, and GPS nest locations
- Collected carapace samples from sea turtles and excavated hatched nests for egg counts

Minnesota Zoo, Apple Valley, MN May 2022-Nov 2022

Butterfly Conservation Research Assistant

- Implemented husbandry protocols for state endangered Dakota Skipper butterfly such as plant checks, egg collection, and neonate care
- Performed data entry and QA/QC in Excel of Dakota Skipper pupation and eclosion dates
- Monitored movements of feeding Dakota Skipper adults as a part of an eDNA study
- Aided in use of telemetry to track movements of Black and Gold Bumble Bees

PROFESSIONAL EXPERIENCE

Crop Characteristics, Farmington MN Jan 2024-Present

Insect Rearing and Plant Testing Technician

- Provide husbandry care for adult Western, Northern, and Southern Corn Rootworm species through daily feeding and cage cleaning
- Prepare petri dishes for corn rootworm egg laying
- Maintain alfalfa by trimming plants and preparing soil

Gabbert Raptor Center, Saint Paul, MN

Sep 2020-Mar 2023

Student Clinic Worker

- Independently prioritized and completed a list of 15 distinct tasks including but not limited to: cleaning flight rooms, replacing air filters, and disinfecting hallways
- Communicated closely with volunteer teams to distribute tasks and workspace area

American Eagle Outfitters, Eden Prairie, MN

Nov 2017-Nov 2021

Sales Associate

- Overcame problems through communication with customers and by meeting their needs
- Maintained store appearance through processing weekly shipment and composing monthly floor sets as part of a team

VOLUNTEER EXPERIENCE

Bell Museum, Saint Paul, MN

Feb 2022-Apr 2022

Gallery Cart Volunteer

35 hours

- Educated visitors by teaching evolutionary concepts relating to avian flight

Wildlife Rehabilitation Center of Minnesota, Roseville, MN

May 2021-Aug 2021

Avian Nurseries Intern

350 hours

- Admitted avian patients through cage setup, food preparation, and written paperwork
- Rehabilitated over 30 songbird species through feeding, illness recognition, and medication administration

Gabbert Raptor Center, St. Paul, MN

Feb 2020-Mar 2020

Education Volunteer

50 hours

- Prepared meals for 8 raptor species through fridge restock and gutting

Grace Church, Eden Prairie, MN

May 2018-Mar 2020

Barnabas Program Volunteer

60 hours

- Provided leadership and guidance to children with disabilities in a classroom setting

AWARDS

- **Natural Resources Alumni Scholarship, 2023**
- **CFANS Scholarship, 2022**
- **Dayton P Kirkham Scholarship, 2022**
- **Unpaid Internship Grant, 2021**

ACQUIRED SKILLS

- **Minnesota Bombus ID**
- **Bombus affinis preferred plant ID**
- **Data acquisition and management**
- **Microsoft Office**

REFERENCES

Clint Otto, PhD

Research Ecologist, United States Geological Survey

Contact: 701-368-9028 • cotto@usgs.gov

8711 37th Street Southeast, Jamestown, North Dakota 58401

Seth Stapleton, PhD

Director of Conservation, Minnesota Zoo

Contact: 952-431-9443 • seth.stapleton@state.mn.us

13000 Zoo Boulevard, Apple Valley, Minnesota 55124

Susan Galatowitsch, PhD

Professor, University of Minnesota

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