

Jacob Perryman

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EDUCATION

PENN STATE UNIVERSITY

Masters in Geographic Information Systems

World Campus

August 2024

LOCK HAVEN UNIVERSITY

B.S. in Biology: Concentration in Ecology and Environmental Science

Lock Haven, PA

May 2015

CERTIFICATIONS

Part 107 Remote Pilot Certificate with sUAS Rating

Federal Aviation Administration

July 2024

SKILLS

GIS and Photogrammetry Software: ArcGIS Pro, ArcGIS Enterprise, QGIS, Pix4D Mapper, WebODM, QGIS

Programming Languages: Python (arcpy, pandas, numpy, scikit learn, seaborn)

Soft Skills: Communication, Critical Thinking, Problem-Solving, Teamwork

PROFESSIONAL EXPERIENCE

Penn State University, Sawers Lab

Research Assistant

State College, PA

June 2024 - Present

UAS mission planning, perform duties related to remote pilot in command, operation of DJI Inspire 2 outfitted with Micasense multispectral camera, risk assessment and mitigation, data collection, generate of multispectral orthomosaics, imagery analysis and interpretation, implement and maintain geodatabase, preparation of thematic maps, use python for geospatial analysis automation, collaboration with Penn State Office for Research Protections, train staff on geospatial software.

Penn State University, Animal Resource Program

ABSL3 and Gnotobiotic Lab Animal Technologist

State College, PA

November 2020-Present

Manage ABSL3 and gnotobiotic animal research, maintain program database, develop SOP's in collaboration with principal investigators and program staff, maintain equipment, provide animal treatment as necessary.

Penn State University, Hudson Lab

Research Technologist

State College, PA

May 2018 - November 2020

Maintain lab database, train undergraduate researchers, trapping of small mammals, use of GPS equipment for data acquisition, small mammal dissections, RNA purification, PCR, cDNA synthesis, adapter ligations, data entry and analysis.

Penn State University, Cameron Lab

Research Technologist

State College, PA

April 2016 - April 2018

Maintain lab database and chemical inventory, recombinant protein purification, technical writing

LignoLink, Inc.

Lab and Field/Greenhouse Assistant

State College, PA

May 2015 - March 2016

Performed various lab experiments, data analysis, maintained greenhouse, field mapping, perform corn field trials for biofuel research

Sanders Environmental

Netting Technician

Mingoville, PA

May 2012 - August 2014

Identification of northeastern cave and tree dwelling bats, communication with clients, perform health assessment of captured bats caught by mist nets, banding of endangered bat species, GPS data collection, perform telemetry on endangered bats to monitor foraging habits.

Lock Haven University

Research Supervisor

Lock Haven, PA

August 2013 - May 2015

Supervised undergraduate researchers in sterile technique, subculturing, and maintained GIS for cave ecosystems throughout Pennsylvania.