

# 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.