Jason Safronoff

Jason.safronoff@principia.edu / +1-231-714-2110

Principia College, 1 Maybeck Place, Elsah IL 62028 USA

(H) 728 Rose Street, Traverse City, MI 49686

**Education**

(2020) **Bachelor of Science**, Biology, Principia College, Elsah, Illinois

2015 **Associate in Applied Science**, emphasis in Freshwater Studies, Science and Technology, Northwestern Michigan College, Traverse City, Michigan

2011 **Associate in Liberal Arts and Science**, emphasis in Fine Arts and Environmental Sciences

2008 High School Diploma, Traverse City High School, Traverse City, Michigan

**Current Employment**

2019- **Student Supervisor**, Biology and Natural Resources Greenhouse, Principia College

2018- **Owner, Soil Life Services, Consulting**

Engineering natural solutions for soil remediation, microscopy, and other field services

**Academic Honors**

2019- **Dean’s List** (GPA 4.00), Principia College

2015- **Member**, *Phi Theta Kappa* Honors Society, Northwestern Michigan College

2009-15 **Dean’s List** (GPA 3.50 - 4.00), Northwestern Michigan College

**Research Experience**

2019 **Capstone Research**; Department of Biology and Natural Resources, Principia College

Impacts of invasive Amur honeysuckle (*Lonicera maackii)* on Soil Acari and Collembola Ratios

2019 **Research Intern**;Department of Biology and Natural Resources, Principia College

Home Range and Habitat Use of Timber Rattlesnakes (*Crotalus horridus*) in Southwest Illinois

2019 **Independent** **Student Research**; Dept of Biology and Natural Resources, Principia College

Participant in a continuous forestry inventory over 18 years (BNR 313 Forest Ecology)

2019 **Independent** **Student Research**; Dept of Biology and Natural Resources, Principia College

Salamander Species Diversity Study, Ferne Clyffe State Park and the Great Smokey Mountains National Park, Tennessee (BNR 190 Introduction to Ecology)

2019 **Independent** **Student Research**; Dept of Biology and Natural Resources, Principia College

Optimal Foraging Theory: Plot Surveys for Study of the Downy Woodpecker (*Drysobates pubescens*)

2018 **Sustainability Study of Soils**; Consultant Program on Life in the Soil Ecology from Dr. Elaine Ingham, Soil Food Web, Inc. (International Laboratory)

2017-18 **Intern**, **Private Academic Research**; Michigan State University (Dr. Elaine Ingham, PI)

Mycoremediation of Contaminated Soils, Composts for Perennial Ecosystems, Bioremediation

2015-17 **Computer Technology** **Intern**;Lake Leelanau Lake Association

Database designer for Microsoft Access and technical support, Leland Michigan

2014 **Research Intern**; Central Michigan University Beaver Island Station

Behavioral Study on Freshwater Benthic Macroinvertebrates in Algae(*Cladophora glomorata*)

**Publications & Presentations**

2015-17 **Writing,** Environment and Safety Topics, Lake Leelanau Lake Association. Professionally edited Word Press articles

2015-17 **Presenter**, Lake Leelanau Lake Association. Board Meetings

2014 **Presenter**, Central Michigan University Beaver Island Station. Public Open House

**Grants**

2019 Principia College, Career Based Internship; **Jason Safronoff**,Research Intern: Department of Biology and Natural Resources

2014 Central Michigan University, Beaver Island REU Fund; **Jason Safronoff**, Research Intern: Central Michigan University Institute for Great Lakes Research, Beaver Island, Michigan

**Professional Associations**

2017-19 **Member,** North American Mycological Society

2017-19 **Member,** Michigan Mushroom Hunter’s Club

**Professional Experience & Service**

2019 **Volunteer,** Community Service Project for Forestry Association of Illinois, Elsah, IL

2019- **President,** William’s Cottage Dormitory, Principia College

2019- **Member,** Sustainability Club, Center for Sustainability, Principia College

2018 **Academic Mentor,** Michigan State University

2018 **Volunteer**, Smith Foray, private consortium of mycologists (university invitation only)

2018 **Volunteer,** Michigan State University mycologist collections identification and projects

2018 **Professional**, Sustainable organic fertilizer sales for organic farms

2018 **Professional**, Sustainability consulting for private corn grower

2018 **Professional**, Sustainability product research at private blue berry grower

2017-18 **Volunteer**, Improve microbiology rubric designs and data collection (for >70 student clients)

2017 **Sustainability Trainee**; Soil Food Web, Inc. and the Environment Celebration Institute

Five-Day Intensive Workshop at Research Farm, Oroville, California

2016 **Volunteer**, Lake Leelanau Association Kid’s Fishing Day

2015 **Volunteer**, Grand Traverse Conservation District, Community service and exhibit design

2015 **Volunteer**, Northwestern Michigan College (NMC) Freshwater Society

2013 **Volunteer,** Northwestern Michigan College (NMC) Muster Project for mentoring new students

**Certifications**

2019 15 Passenger Van Certification and approved for off-road vehicle use, Principia College

2018 Consulting Training: Compost Product Quality (Meeting rigorous biodiversity and safety standards)

2017 Microscope Class Certificate with Distinction (>90% on quizzes)

2017 Compost Tea Class Certificate with Distinction (>90% on quizzes)

2017 Compost Class Certificate with Distinction (>90% on quizzes)

2017 Life in the Soil Class Certificate with Distinction (>90% on quizzes)

2016 First Aid, American Red Cross

2014 Michigan Boater’s Safety Certificate

2013 Database Administration Fundamentals SQL Server

2012 Software Developer Fundamentals (C#)

2012 Microsoft Office Specialist

**Research Skills**

Computer: ArcGIS, ArcDesktop, ArcGIS Online, Collector App-ESRI, Geodatabase Management, Importing, formatting and projecting data, Data Transformations, Raster and vector data, Database design and Analysis, MS Access, C# programming, SQL Server, Visual Basic, Visual Studio, MS Word, Excel, PowerPoint, Photoshop

Field Site soil quality evaluations, Soil bulk density/penetrometer, Soil sample coring, Off-road vehicle qualified, Qualified to drive standard transmission vehicles, Backcountry camping/ cooking, Grafting of scion wood

Laboratory Experience in PCR lab prep, Polymerase chain reaction DNA amplification & gel electrophoresis, trained laboratory safety with fume hoods and chemistry, clean-room space prep and laminar hood use, microbiology cultivation for mycoremediation, contaminant quality control and safety, microbiology group assay (soil bacteria, fungi, protist, nematode morphology and function groups), microscope biomass assay, epifluorescent microscope and microbiology activity assay, soil pH with Verneer Datalogger and other electrodes

Operation Powered forklift, Large presses, Metalwork machine shop safety

Research VHF Radio-telemetry (>500 hours in field) and data collection, Home-range Analysis,

Long-term forest dynamics, Continuous forest inventory, Disturbance Ecology, Modern succession theory, Dendrology, Forest species cruising and evaluation, Site Physiography

Freshwater Morphology Measurements & Calculations (Lake Volume, Stream Discharge and

Volume, Secchi Depth Measurements), Water Quality Measurements with Hydrolab, Benthic Macroinvertebrate Sampling (D-Net)

Species Diversity Sampling, fish ID tagging for mark and recapture

Familiar with Shannon-Weiner Species Diversity Index, Evenness, Simpson Diversity Index, and Hardy Weinberg & Population, Conservation Genetics (DNA replication and transcription, CRISPR and Prime Editor, conservation with population genetics)

Dynamics Calculations

Flow through Respirometry

Dichotomous keys

Language English (Proficiency), French (Elementary Proficiency)

Other Geology, General Chemistry, Ceramic Materials, Trained in Black and White Photography Skills

**Employment History**

2015-17 **IT Communications Specialist**; Lake Leelanau Lake Association, Leland, MI

2015-18 **Press Operator**, AEES, Grand Traverse Stamping, Traverse City, MI

2015 **Orchard Assistant,** Nature’s Bounty LLC

2011-13 **Sales Associate**, Menards, Traverse City, MI

**References**

Available upon request.