

Jason Safronoff

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Principia College, 1 Maybeck Place, Elsah IL 62028 USA
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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 (*Dryobates 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 glomerata*)

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 Vermeer 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.