

# Cecilia Albert-Black

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## EDUCATION

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### Southern Illinois University, Bachelor of Science

Carbondale, IL

Environmental Geology major; Geography & Environmental Studies minor

July 2021

- Coursework: Hydrogeology, Sedimentology & Stratigraphy, Geographic Information Systems, Petrology, Structural Geology, Geomorphology, Mineralogy, Low Temperature Geochemistry, Geomicrobiology, Soil Science, Geographic Statistics, Physical Climatology, Calculus I, Analytical Chemistry, Mechanical & Electrical Physics, Field Mapping Geology (Wyoming, Montana, Idaho).

## PROFESSIONAL EXPERIENCE

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### Rodale Institute

Kutztown, PA

Research Intern

Sep 2021 - Dec 2021

- Performed soil sampling (surface and deep core) and lab analysis (drying, sieving, bulk density, aggregate stability, moisture content, DNA and PLFA analysis) under supervision and independently.
- Gained experience with instruments such as soil probes, GPS Trimble, lysimeter, and penetrometer.
- Conducted cash crop, cover crop, and weed sampling and lab analysis (density, wet and dry biomass weight, weed seedbank, species identification) under supervision and independently.
- Analyzed 2019 and 2020 crop and soil data to present a research project and presented to all Rodale staff.

### Southern Illinois University

Carbondale, IL

Student employee

Aug 2020 - Jun 2021

- Worked for the Environmental Impacts of Denitrification in Mississippi River Floodplains project.
- Installed and developed groundwater monitoring wells, performed slug and bail tests, collected surface and groundwater samples, collected water quality data (using a YSI ProDSS Multi-Parameter Water Quality Meter).
- Filtered water samples in the laboratory and prepared a standard solution for Dionex analysis independently.

### Southern Illinois University

Carbondale, IL

Undergraduate researcher

Aug 2018 - May 2019

- Wrote a proposal for an undergraduate research grant on “Arsenic Filtration from Contaminated Groundwater”
- Designed research methods, conducted laboratory experiments on-campus and at Argonne National Laboratory (Chicago, IL) under supervision, gained OSHA chemical safety training, analyzed data, presented my results at a research symposium, and got accepted to present my work at the 2019 Geological Society of America Conference.

## SKILLS

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- Familiar with Modflow, ArcGIS, Geochemistry Workbench, DNA sequence software (NCBI BLAST methods), and Microsoft Office Suite.
- Experience writing proposals, grants, lab procedures, and research methods.
- Development and analysis of geologic maps, cross sections, and stratigraphic columns based on field data of outcrops and geologic structures.
- Trilingual in English, Spanish, and Catalan

## SCHOLARSHIPS

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- Honors Graduation Certificate 2021
- National Association of Geoscience Teachers Field Camp Scholarship 2021
- Environmental Ambassador Award 2020
- Bill D. Allen Memorial Scholarship 2020
- Ira E. Odom Memorial Scholarship 2019-2020
- Annuitants Association Scholarship 2019
- Research Enriched Academic Challenge and Tedrick Award 2018-2019