LIAM BAKER

Agriculture and Environmental Sciences PhD Student

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- 📍 Ithaca, NY
- in LinkedIn

EDUCATION

Ph.D. in Crop and Soil Sciences
Cornell University
- 📅 2019 - 2023
- 📍 Ithaca, NY

Master of Professional Studies
Agriculture and Life Sciences
Cornell University
- 📅 2017 - 2019
- 📍 Ithaca, NY

Bachelor of Science
Agricultural Sciences
Cornell University
- 📅 2014 - 2017
- 📍 Ithaca, NY

SKILLS

ArcGIS; AQUATOX; GeoDa; Climate Data API; Decagon Devices; APSIM; MODFLOW

CERTIFICATIONS

- Certified Environmental Professional (CEP)

WORK EXPERIENCE

Crop Scout

Wagner Farms
- 📅 2018 - 2020
- 📍 Ithaca, NY

- Utilized ArcGIS to create maps illustrating crop health and environmental factors.
- Partnered with farmers to develop customized crop management plans, resulting in a **31% increase in yields**.
- Implemented AQUATOX to analyze water quality impact on crop health, leading to optimized irrigation strategies.
- Leveraged GeoDa for geospatial data analysis and visualization to identify spatial patterns and trends.

Agriculture Intern

Dilmun Hill Student Farm
- 📅 2016
- 📍 Ithaca, NY

- Collaborated with the research team to design and execute field experiments aimed at optimizing crop yields.
- Deployed Decagon Devices to monitor soil moisture levels and environmental conditions, resulting in a ***3.2K cubic meters reduction in water usage***.
- Applied Climate Data API to collect and analyze historical weather data, enabling data-driven decisions on planting and irrigation schedules, leading to a 101 metric ton increase in crop yield.
- Managed APSIM simulations to predict crop growth and optimize resource allocation, resulting in a 12% improvement in resource efficiency.

PROJECTS

UrbanFarming Initiative

Volunteer
- 📅 2018

- Volunteered as part of a team to convert vacant urban lots into sustainable farms with a focus on enhancing local food production and promoting sustainable agriculture.
- Achieved a ***27% reduction in water usage*** compared to traditional farming methods, contributing to water conservation efforts.
- Analyzed resources and timeline and reduced operational costs of the project by 18%, making sustainable farming more financially viable.
- Improved local plant species diversity by 33% using BiodiversityR analysis, promoting ecosystem resilience.