

Tyler Serio

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PROJECTS

MONTRANT SOFTWARE AND ANALYSIS, LLC | PYTHON, KRONATOOLS, NCBI DNA DATABASE

<https://search.sunbiz.org/Inquiry/CorporationSearch/ByName>

Started a business to provide eDNA analysis to my college biology department using a program developed by myself and two professors. The Bailey Pipeline analyzed eDNA and provided organism population summaries. From 2022 to 2025.

CONVERSION CALCULATOR | HTML, JAVASCRIPT, CSS, CLOUDFLARE, HOSTGATOR

<https://calculateconversion.com/>

This website was made to convert units of measurement to other units of measurement. It includes units of length, mass, time, acceleration, energy, and information entropy. You can convert meters to inches, seconds to jiffies, calories to tons of TNT, and so on. Developed, tested, and maintained by myself.

AUTHOR OF "METAGENOMIC SURVEY OF EDNA FROM THE OLD VERO SITE" | PYTHON

<https://www.jstor.org/stable/jj.33676772>

For my work in analysis of archaeological DNA samples, I was made lead author of a paper included in a book published by the University of Utah Press. This was Appendix H in the volume titled "The Old Vero Site (8IR009): One Hundred Years Later, The 2014 - 2017 Excavations" published in 2023.

SKILLS

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| PYTHON | 8+ years of experience developing programs for researchers using the language. |
| MACHINE LEARNING | Training of regression/classification models with scikit-learn and PyTorch. |
| DATABASES | Scraping, querying, and creating with SQL and SQLite. |
| WEB DESIGN | 4+ years of experience with HTML/CSS/JavaScript to create and design websites. |
| WEB HOSTING | Hosting of sites with Cloudflare, HostGator, and custom domain names. |

WORK EXPERIENCE

FC RENEW | LABORATORY PROGRAMMER Knoxville, TN | June 2024 – Present

- Data analysis, automatic report generation, regression prediction of fuel cell health.

ZARC | LABORATORY RESEARCHER Fort Pierce, FL | December 2019 – December 2022

- Collection of data, running of experiments, rearing shrimp nauplii, caring for broodstock.

MONTRANT SOFTWARE AND ANALYSIS, LLC | OWNER Vero Beach, FL | August 2022 – April 2025

- Provided DNA analysis as a service to college biology department using the Bailey Pipeline.

EDUCATION

INDIAN RIVER STATE COLLEGE | AA COMPUTER SCIENCE Fort Pierce, FL
GPA: 3.8

INDIAN RIVER STATE COLLEGE | CERTIFICATION COMPUTER PROGRAMMING SPECIALIST Fort Pierce, FL

INDIAN RIVER STATE COLLEGE | CERTIFICATION IT SUPPORT SPECIALIST Fort Pierce, FL

AWARDS

ARCTIC CODE VAULT CONTRIBUTOR GITHUB ARCHIVE PROGRAM

Bioinformatics code was archived onto a hardened film designed to last for 1,000 years, then stored in the GitHub Arctic Code Vault in a decommissioned coal mine below an Arctic mountain in Svalbard, Norway.