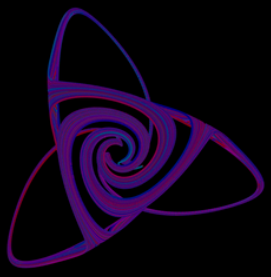

Evan Voyles

Numerical Analyst

Lifelong learner and aspiring polyglot seeking to combine his passions of language, science, and programming into one fulfilling career

Work Experience

Research Assistant, Physics Department
Kalamazoo College | Sep 2020 - Sep 2021

- Maintain MATLAB package for future students
- Debug and refactor legacy software written in C and Fortran
- Coordinate execution of simulation software on a 52-core linux system using ssh, Bash, and Perl scripts

Educational History

Masters in Applied Mathematics and Computer Science
Sorbonne Université | Sep 2021 - June 2024

- First year coursework in C programming, computer architecture, systems programming, and data structures and algorithms
- Mathematics coursework in numeric resolution of differential equations, matrix algorithms, non-linear systems of equations and optimization algorithms
- Theoretical coursework in analysis, topology, measure theory, and Hilbert spaces

Bachelor of Arts: Mathematics & Chemistry
Kalamazoo College | Sep 2016 - June 2020

- Minor in French
- Honors in senior thesis: *Decomposition of Virus Normal Modes into Spherical Harmonics: An exploration of Symmetry Adapted Functions (SAFs)*
- Write MATLAB software to model virus objects and decompose the vibrational modes of their capsid for my senior thesis

Diplôme C1: French
Université de Strasbourg | Sep 2018 - Dec 2018

- Study abroad experience in Strasbourg, France
- Mention très bien (Honors)
- Integrated Cultural Research Project: volunteer at a private high school to assist in English classes.

Coding Projects

libejovo++

- Scientific library in C++20 with numeric quadrature, polynomial interpolation, matrix algebra, differential equation algorithms, rng functions, markov chains and more

viruses

- MATLAB package that projects virus normal mode oscillations onto a series of symmetric, spherical basis functions to classify and study their vibrations.

Contact me at

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https://github.com/ejovo13

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+ 1 734 756 9891 [June-Sep]

Programming Languages

- C/C++
- Python
- Fortran
- MATLAB
- Bash

Tooling

- CMake
- Arch Linux, Ubuntu
- OpenMP, OpenMPI

Human Languages

- French
- Spanish
- Mandarin Chinese