

Christian Ermann

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EDUCATION

Lewis & Clark College (3.71 GPA)

Bachelor of Arts in Mathematics, Bachelor of Arts in Physics

Portland, OR

Aug. 2018 – May 2022

Fort Hays State University (4.00 GPA)

Kansas Academy of Mathematics and Science Completion Certificate

Hays, KS

Aug. 2016 – May 2018

Liberal High School (4.00 GPA)

High School Diploma

Liberal, KS

Aug. 2014 – May 2018

EXPERIENCE

Math, Physics, and Computer Science Tutor

Symbolic and Quantitative Resource Center, Lewis & Clark College

Sep. 2019 – Present

Portland, OR

- Assisted students in reinforcing their learning and understanding of course material.
- Coordinated with other tutors to provide the best help possible to each student.

Physics Lab Teaching Assistant

Lewis & Clark College

Sep. 2019 – Present

Portland, OR

- Aided and encouraged students in investigating the fundamentals of physics.
- Reviewed students' lab work to provide meaningful feedback.

PROJECTS

PolyFy | C++, OpenGL

Fall 2020 – Present

- Engineered an evolutionary algorithm to recreate images from simple polygons, accelerated by compute shaders.

Quantum Leapfrog | Python, NumPy, Matplotlib

Fall 2020

- Designed a leapfrog integrator for the time-dependent Schrödinger equation to study particle interaction with energy boundaries.

Marching Cubes | C++, OpenGL

Fall 2019

- Implemented the Marching Cubes algorithm to render implicit surfaces described by signed distance functions.

ACHIEVEMENTS

Men's Varsity Crew Team Member

Lewis & Clark College

Fall 2018 – Present

Portland, OR

- Collaborated on a daily basis with teammates to succeed in stressful situations.
- Balanced time between training, travel, competition, work, and academics.

Trustee Endowed Scholarship

Lewis & Clark College

Fall 2018 – Present

Portland, OR

- Awarded to top first year students, under condition of continued academic performance.

Eagle Scout Award

Troop 73

Summer 2016

Liberal, KS

- Planned and led the replacement of an aging local playground with a new custom-themed playground.