AARON KRIEGMAN

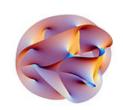
Software Engineer and Mathematician

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PROJECTS

Metrica

A building game in non-Euclidean geometry made in Unity with GlmSharp, with my own graphics shaders and physics implementation using quaternions. Check it out on YouTube.

Wave Simulation

An interactive simulation of the wave equation in C++ using convolutions and FFTs from the Eigen Tensor module, with SFML. Check it out on GitHub for pictures.

Liquid Go

A game based on Liquid Wars and Go, made with React.js and Rust using Wasm-Bindgen, WebRTC, Socket.IO, R*-trees, and more. Check it out at liquidgo.xyz.

Check out my GitHub to see more projects with pictures.

COURSEWORK & GRADES

Interactive Computer Graphics	4.0
 Using OpenGL in C++ with Qt 	
Graduate course at University of Pennsylvania	
Computer Organization	4.0
Created a working CPU in Logisim for my final project	
Computational Geometry	3.7
Information Theory and Data Science	4.0
Analysis of Algorithms	4.0
With data structures as a prerequisite	
Lie Groups and Representation Theory	4.0
Graduate course at University of Pennsylvania	
Mathematical Economics	4.0

EXPERIENCE

Software Engineering Intern

DreamsAl

 Worked on a cryptocurrency fintech service. Used technologies including PostgreSQL, Express.js, Jest, React, Linux, Bash, cURL to interact directly with the Ethereum Blockchain, and more.

Math Camp Counselor

Ross Mathematics Program at Ohio State University

June 2020 - Aug 2020

online

Research Experience for Undergraduates Texas A&M University

🛗 June 2019 - Aug 2019

♥ College Station, TX

LANGUAGES



EDUCATION

BA. in Mathematics (in progress) University of Cambridge

m Oct 2020 - June 2023

Haverford College

M Sept 2018 - June 2020

Studied mathematics and computer science at Haverford for two years then transferred to Cambridge.

MOST PROUD OF



USA Mathematics Olympiad

Qualified twice in 2017 and 2018.



Putnam Mathematics Competition Top 500

Came in top 500 in the US's premier college mathematics competition twice, in 2018 and 2019.

MY PLANS

Currently studying mathematics at Cambridge University. Looking for internships and considering taking a gap year to work.

PUBLICATIONS

Journal Articles

 Asimina Hamakiotes, Aaron Kriegman and Wei-Lun Tsai (2019). "Asymptotic Distribution of the Partition Crank". In: The Ramanujan Journal.