## **AARON KRIEGMAN**

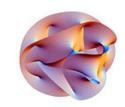
### **Software Engineer and Mathematician**

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akriegman



## **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
<ul> <li>Using OpenGL in C++ with Qt</li> </ul>	
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

m June 2020 - Aug 2020

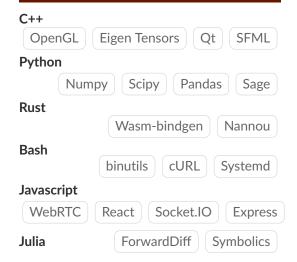
online

# 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.