



# Gregory Croisdale

Computer Scientist



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## About Me

I'm studying ways that people can safely interact with state-of-the-art tools and media. Be it developer tools, recommendation algorithms, user interfaces, or interactive learning environments, I want to help contribute to an sustainable and efficient relationship between Humans and Computers.

## Skills

Python

C/C++

Systems Programming

HTML5

React Native

Remembering to Recompile

## Links

**Personal Website:** [greg.croisdale.us](http://greg.croisdale.us)

Here, you can find more about my various projects and what I've been up lately.

**Carve:** [carve.chemicaldevelopment.us](http://carve.chemicaldevelopment.us)

This is a client-side RISC-V emulator and debugger I created for students.

**PAIRS:** [pairs.eecs.utk.edu](http://pairs.eecs.utk.edu)

This is the lab page for my primary research group at UTK.

**CSCTW:** [csctw.org](http://csctw.org)

This is the organizational page which contains much of my work from the ELPS.

## Education

2018-2022 **B.S. Computer Science**  
Math and Philosophy Minors  
*University of Tennessee, Knoxville*  
3.94 GPA

Knoxville, TN

## Publications

Sept 2021 **Exploring Learning Approaches for Ancient Greek Character Recognition with Citizen Science Data**  
17th IEEE eScience Conference; Online

## Poster Presentations

Aug 2021 **Improving Accessibility to FFT Stencil Computations**  
Stony Brook University Summer Research Symposium; Online

Aug 2020 **Improving the Empathetic Response of Academically Focused Students through Historical Gamification**  
UTK Discovery Day; Knoxville, TN

Jan 2020 **Montgomery 1960: Using Technology to Teach Empathy and Perspective Taking**  
American Historical Association Annual Conference; New York City, NY

## In Progress

**Fourt: A Fast Stencil Code Generator based on Fast Fourier Transforms**

**Avocat: Automatic Command Line Error Resolution**

## Experience

Jan 2021 **Undergraduate Researcher - PAIRS Research Group** Knoxville, TN  
With the PAIRS research group, I have actively contributed to three different projects in the fields of HCI. I am in the process of leading a project which aims to automatically resolve command-line errors by referencing and updating existing crowdsourced Q&A sources.

Aug 2019 **Undergraduate Teaching Assistant and Tutor** Knoxville, TN  
I have been a Supplemental Instructor, Group Tutor, or Undergraduate Teaching Assistant in some capacity since my Sophomore year of my Undergraduate. I regularly lead lab sessions, provide individual and group tutoring sessions, grade work, assist in the production of lab materials, and create demonstrative projects, such as Carve, a tool to help students learn and debug RISC-V assembly.

2019 - 2020 **Undergraduate Researcher - Educational Leadership and Policy Studies Department (ELPS)** Knoxville, TN  
I lead a Design Team with the ELPS which sought to create a framework for a game which sought to teach historical contextualization and empathy using a plethora of original research. I created game demos and websites, performed small user studies, and performed interviews with college students from Alabama State who participated in Civil Rights protests in 1960.

## Accolades & Grants

2021 **NSF REU Grant Recipient (1950042)** Stony Brook University

2021 **Gonzalez Family Award for Excellent Undergraduate Teaching Assistant** University of Tennessee, Knoxville

2020 **SURGE Grant Recipient** University of Tennessee, Knoxville

2020 **Travel Grant Recipient** University of Tennessee, Knoxville