

TYLER D. FRENCH

Chapel Hill, NC • tfrench@gatech.edu

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Engineering Bachelor of Science in Electrical Engineering

- CS Minor in Computation and Intelligence

Atlanta, GA

May 2021

GPA: 4.0

UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL

- Enrolled as a part-time student after exhausting courses offered at high school
- Coursework: Multivariable Calculus, Differential Equations, Discrete Mathematics

Chapel Hill, NC

May 2017

GPA: 4.0

RESEARCH

CENTER FOR SIGNAL AND INFORMATION PROCESSING, Georgia Tech

Undergraduate Research

- Test KSVD Machine Learning Algorithm on image datasets to study error and performance
- Optimize learning through testing different data expansion methods

Atlanta, GA

March 2018 - present

JOINT APPLIED MATH AND MARINE SCIENCES FLUIDS LAB, UNC

Undergraduate Research

- Studied particle movement and behavior in stratified fluids with Bernoulli and Poiseuille mathematics
- Collected data using equipment including viscometers, densitometers, and fluid diffusers
- Delivered presentations to other students and faculty

Chapel Hill, NC

August 2016-June 2017

WORK EXPERIENCE

GEORGIA TECH RESEARCH INSTITUTE

Intern

- Work in Sensors and Electromagnetics Applications Lab (SEAL)
- Use MATLAB to model Signal Processing for modern radar devices
- Learn mathematics and mechanics behind radar design and operation

Smyrna, GA

May 2018 – present

ATLANTA HUSTLE, American Ultimate Disc League

Professional Ultimate Frisbee Player

- 10+ hours per week devoted to training and practice
- Travel to compete in states including Texas, North Carolina and Florida

Atlanta, GA

March 2018 - present

CLARION CONTENT MEDIA

Intern

- Photographed, videographed, and authored articles to document local events in a professional setting
- Developed a method to easily create online quizzes for publication
- Maintained WordPress website on a weekly basis and helped improve back-end functioning using PHP and CSS

Durham, NC

June 2015 - June 2017

THE SHODOR FOUNDATION

Apprentice

- Worked on projects including iPhone development in Obj-C and parallel computing in C
- Created a mathematical population model and programmed graphical interface in JavaScript

Durham, NC

August 2014 - March 2015

ACADEMIC PROJECTS

SOLAR WATER HEATER

- Built machine from scratch using only recycled materials to meet very limited budget
- Cycled water using passive temperature-propelled fluid movement through a closed coil system
- Delivered a presentation to 60+ students explaining the math of the fluid mechanics that caused the water to cycle

June 2017

SKILLS/INTERESTS

Electrical Engineering:

Digital Signal Processing, Digital Logic Design, PLD Usage, Circuit Analysis

Computation:

MATLAB, Python, Swift, Java, JavaScript, C, PHP, HTML, CSS

Languages:

English – native, Spanish – conversational

Interests:

Motion Graphics, Photography, Snowboarding