

# Matthew Russell

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## WORK EXPERIENCE

**HCI Researcher** - *Tufts University HCI Lab* 2017 - Present

Designed, implemented, ran, and analyzed human subject studies leveraging EEG and fNIRS devices intended to enhance user experience.

**Lecturer** - *Tufts University* Summer 2020

Taught Data Structures in C++.

**Teaching Assistant** - *Tufts University* 2017 - Present

Teaching Assistant for a variety of courses: Data Structures (C++), Computer Graphics (C++), Intro CS (Python), Cybersecurity, and Concurrency (Erlang).

**Research and Teaching Assistant** - *Syracuse University* 2015 - 2017

Developed research code in Matlab for the CARE lab at Syracuse University, and taught Dr. Natalie Russo's PhD candidates programming fundamentals.

**Research Assistant** - *Hamilton College* Summer 2010

Assisted Professor Leanne Hirshfield with human-subject fNIRS research.

**Research Assistant** - *Hamilton College* Summer 2009

Assisted Mark Bailey working in Emacs Lisp on a project to analyze the time-efficiency of programming sessions.

**Teaching Assistant** - *Hamilton College* 2008 - 2010

Aided CS students working on programming assignments in Python and C++.

## PROJECTS

**Gradescope Autograder** — *Autograding infrastructure*

C/C++ autograding framework that integrates with Gradescope. Currently in use by TAs and Professors at Tufts. Written in Python. <https://rb.gy/t9r14h>

**unit\_test** — *A C++ unit testing framework*

A C++ unit testing framework currently in use by Tufts' Data Structures students

Python Script: <https://rb.gy/8bjfui> | VSCode Extension (TypeScript): <https://rb.gy/tex0so>

## EDUCATION

**MS Computer Science** 2017 - 2020

Tufts University

**BA Computer Science & English Literature** 2007 - 2011

Hamilton College

## PROGRAMMING LANGUAGES

Python

C++

Javascript

Typescript

Bash

Html

Matlab

Java

C

Erlang

PostgreSQL

## RELATED SKILLS

UNIX

Git

Docker

Node/Express

Flask

Heroku, AWS, ngrok

DigitalOcean

CI/CD (Gitlab, Heroku)

## RESEARCH SKILLS

Can design, implement, run, and analyze human subject studies. Comfortable with IRB protocols. Can perform studies leveraging brain-sensing (EEG/fNIRS) systems.

## OTHER

From fall 2011 - winter 2014, I lived at a Rinzaï Zen Buddhist monastery - Dai Bosatsu Zendo, where I practiced Yoga and Zen meditation; I taught Yoga there, and led groups of up to 25 in preparing and cleaning the monastery for groups of up to 100 people.