Justin Goodman

College Park, MD

O @jugoodma

iugoodma.github.io

Education

University of Maryland

College Park, MD

August 2016 - May 2020

B.S. Computer Science (Department Honors)

B.S. Mathematics

Honors College - University Honors Program

GPA: 3.940

Selected coursework:

OOP I/II Artificial Intelligence

Intro to Systems Human-Computer Interaction

*Distributed Cloud-Based File Systems Discrete Structures

Statistics Programming Languages

Algorithms (intro/advanced) Advanced Calculus Advanced Data Structures Computational Methods

Teaching

CMSC420

University of Maryland Spring 2020

(expected) ADVANCED DATA STRUCTURES

Grading TA

CMSC388L

University of Maryland Fall 2019

READINGS IN HCI RESEARCH

STIC (Student Initiated Course) Co-Facilitator

CMSC250

University of Maryland Spring 2018 - Fall 2019 DISCRETE STRUCTURES

Head/Teaching TA (Spring 2019, Fall 2019) Teaching TA (Spring 2018, Fall 2018)

CMSC131

University of Maryland

Fall 2017

OBJECT-ORIENTED PROGRAMMING I

Grading TA

Research

Twitter Transparency

University of Maryland

January - October 2019

(ongoing) In collaboration with SUPERGroup at the Univer-

sity of Chicago.

Mentors: Dr. Michelle Mazurek, Dr. Blase Ur

Big Data REU

University of Chicago / IIT Chicago, IL

May - August 2019

BigDataX: From theory to practice in Big Data computing at

eXtreme scales

Mentor: Dr. Kyle Hale

- Worked on addressing space theory in HExSA lab
- Created novel process dynamics visualization techniques

^{*} Graduate-level course

Poster CVPR 2019

Audio-Visual Interpretable and Controllable Video Captioning

Yapeng Tian, Chenxiao Guan, Justin Goodman, Marc Moore, and Chenliang Xu (paper accepted as poster)

CVPR sight and sound workshop, 2019

Computer Vision REU

University of Rochester Rochester, NY May – July 2018 Computational Methods for Music, Media, and Minds Mentor: Dr. Chenliang Xu

- Created novel Amazon MTurk interfaces to build three datasets for training computer vision models
- Earned Deans' Citation for Broadening Research Involvement

- Industry —

Web Development Full Time D3Corp

Ocean City, MD May - August 2017

- Collaborated with team to design and build websites for commercial enterprises
- Contributed to over 100 websites
- Learned advanced techniques for WordPress, Jekyll/Liquid, Linux server implementation/maintenance, Google Analytics/Tags, and Facebook Pixel

Web Development Internship

D3Corp Ocean City, MD June - August 2016

- Collaborated with team to design webpages for commercial enterprises and increase visibility through search engine optimization
- Contributed to over 100 websites
- Learned how to use WordPress and content management systems for building websites

- Projects -

All projects available on GitHub. School projects available on request

Behavioral Research App

University of California San Diego, CA August 2017 (on hold) Developed Android app for Behavioral Economics researchers at UCSD

Used Android Studio, along with Google Firebase Authentication/Database, and FitBit API to log participants' sleep time

Personal Home Linux Server

Salisbury, MD June 2017 (still maintained) Converted an old computer into a UNIX-based web server (Ubuntu Server, NGINX, PHP, MariaDB) Currently hosting: ironprofessor.com

Set up SSH key-based authentication and forced-HTTPS pro-

Migrated server to Raspberry Pi

Hooked up UPS - server sends text-message updates

DataLeague Hackathon

University of Maryland College Park, MD November 2016

Placed 2nd overall

Collaborators: Clifford Bakalian, James Gu

Designed a model for estimating the likelihood that an air-

borne illness will survive and affect a population

Integrated APIs from Weather Underground, Air Now AQI, Google Maps, and the US Census Bureau

Class Projects

University of Maryland

Wide array of projects including/involving:

- Principles of OOP (Java)
- Systems (C)
- Lexing/Parsing (OCaml)
- Web Security (Ruby)
- AI (Python)
- User Interfaces (web)
- Advanced Data Structures
 - AVL Trees
 - Patricia Tries
 - KDTrees
 - PRQuadTrees

Organizations

Dept. of Computer Science Undergraduate representative

Education Committee University of Maryland

College Park, MD Fall 2018 - Spring 2020

UMD Cycling Club

University of Maryland College Park, MD

Marketing Coordinator (June - Dec 2017)

Accomplishments —

Best Undergraduate TA

University of Maryland College Park, MD Fall 2017 - Spring 2018

Selected by the Teaching Awards Committee

Quote: for his enthusiasm, dedication and openness. Several students noted that Justin was extremely well prepared for discussion sessions, with well designed problems and examples that illuminated difficult concepts.

Eagle Scout

Salisbury, MD August 2015

Project: cleared out overgrowth in 350ft × 10ft creek (mill race) at Furnace Town Living Heritage Museum. I try and check back each summer - the overgrowth is still gone!