Justin Goodman

📍 College Park, MD   ⌨ [@jugoodma](#)   </> [jugoodma.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: 3.969
Selected coursework:

OOP I/II	Artificial Intelligence
Intro to Systems	Human-Computer Interaction
Discrete Structures	*Distributed Cloud-Based File Systems
Programming Languages	Statistics
Algorithms (intro/advanced)	Advanced Calculus
Advanced Data Structures	Computational Methods

* Graduate-level course

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 University of Chicago.
Mentors: Dr. Michelle Mazurek, Dr. Blase Ur

Poster
SC 2019

Visualizing Process Dynamics
Justin Goodman, Dr. Kyle Hale
Undergraduate Research Poster

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

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 protocol
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 airborne 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 Education Committee
University of Maryland
College Park, MD
Fall 2018 – Spring 2020

Undergraduate representative

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!