Eugene Han

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EDUCATION

University of Illinois at Urbana-Champaign, Urbana-Champaign, IL

May 2021

M.S. Statistics

GPA: 3.83/4

Carnegie Mellon University, Pittsburgh, PA

May 2019

 $B.S.\ Mathematical\ Sciences\ with\ MCS\ College\ Honors$

GPA: 3.20/4

Additional Major in Statistics, Minor in Computer Science

HONORS & AWARDS

Dean's List (High Honors)

Spring 2019 (2018)

Top 20% on the Putnam Mathematical Competition (score: 11, 13)

Dec 2017, 2018

Recipient of the Harris Award at HackCMU

Sep 2015

RESEARCH EXPERIENCE

University of Illinois, Department of Statistics

Mar 2020 - Present

Advisor: Ruoqing Zhu

- Developed an algorithm to find the maximum likelihood estimation of the Fisher-Bingham distribution using gradient descent
- Modeled microbiome data on the hypersphere for more practical inference

Carnegie Mellon University, Department of Mathematical Sciences

Oct 2016 - Dec 2017

Advisor: David Offner

- · Found the upper bound for a specific class of linear polychromatic colorings of the hypercube
- · Developed an algorithm to discover better lower bounds of previously known cases

PUBLICATION

E. Han and D. Offner, Linear d-polychromatic Q_{d-1} -colorings of the Hypercube, *Graphs and Combinatorics*, 34 (2018) 791-801.

TEACHING EXPERIENCE

15-650 Algorithms and Advanced Data Structures, Fall 2018

Fall 2018

Teaching Assistant

- · Occasionally filled in for lectures on algorithm design and analysis when the professor was out
- · Held weekly office hours, graded homeworks and exams

15-122: Principles of Imperative Computation, Summer 2017

Head Teaching Assistant

Summer 2017

- Directed teaching assistants to ensure a smooth workflow
- $\boldsymbol{\cdot}$ Led exam review sessions and performed the same tasks as listed below

Teaching Assistant Spring, Fall 2017

· Led multiple weekly labs and recitations to teach C and basic data structures and algorithms

PROFESSIONAL EXPERIENCE

Locus Analytics, New York, NY

Data Analytics Intern

- Jun 2018 Aug 2018
- · Developed classification models to assign job postings to the firm's proprietary classification system
- · Analyzed economic complexity of geographically proximate communities
- · Presented analytics work to technical and non-technical audiences

Opticlose, New York, NY

Sep 2014 - Aug 2015

Data Analyst Intern

- · Analyzed sales data for the construction of regression models for predicting the success of sale closures
- · Developed a R package to assist in future model developments
- · Prepared slide decks detailing the analytical results for investors

PROGRAMMING SKILLS

R, Python, C, Java, Git