

## Education

- University of Chicago (Chicago, IL) *Expected June 2020*
- B.A. in Statistics, Minor in Computer Science GPA: 3.24/4.0
  - *Honors Include:* Dean's List (2017, 2018)
  - *Relevant Coursework:* Algorithms and Data Structures, Numerical Linear Algebra, Applied Regression Analysis, Statistical Theory and Methods, Computer Systems (*current*), Machine Learning in Medicine (*current*)

## Skills

- *Backend:* Python (NumPy, Pandas), Java, C
- *Data:* R, Excel, CSV/JSON manipulation
- *Frontend:* JavaScript, jQuery, HTML, CSS
- *Concepts:* Data structures, algorithms, complexity analysis

## Work Experience

**American University (Xiao Lab)**, Washington, DC *August 2019 – present*  
*Computer Science Research Intern*

- Built an [algorithm](#) in Python to randomly sample video triplets from a space of over 95 million combinations for an experiment studying human perception of simulated cloth videos
- Built a [website](#) in JavaScript and HTML/CSS and set up a virtual private server (VPS), allowing us to administer the experiment at a significantly faster speed and increase our data from 1500 video triplets to the desired 5000

**Digital Observers**, Naknek, AK *June 2018 – July 2019*  
*Quality Control (QC) Technician*

- Enforced quality requirements regarding the chilling, bleeding, and floating of over 1 million pounds of salmon for a fleet of 200 fishermen in Bristol Bay, the world's largest sockeye salmon fishery
- Collaborated with fellow QC technicians, tender captains, and fleet managers as a team responsible for an estimated \$40 million in cannery quality bonuses to fishermen

**Georgetown University (Hamilton Lab)**, Washington, DC *June 2015 – September 2015*  
*Population Genetics Research Intern*

- Performed polymerase chain reaction (PCR), gel electrophoresis, and DNA fragment analysis (using an ABI Prism 3100) to analyze and quantify genetic variation in over 400 striped bass (*Morone saxatilis*)
- Wrote a research paper, presented a [PowerPoint](#), and participated in a poster session with peers to discuss my findings

## Projects

### Retirement Calculator

- Calculates in Python how a given retirement [portfolio](#) would have fared historically, using S&P 500 returns data, to help plan optimal savings based on the user's annual spending and retirement length

### Bristol Bay Pay Day: a predictive model

- Uses ex-vessel fish prices since 1984 and various economic variables to predict how much fishermen will be paid per pound of salmon – a figure that Alaskan canneries do not release until salmon season is nearly over

### Factor (PayPal Hack-Chicago 2019)

- A [website](#) that 1) rates companies based on their ethical practices, weighted by user input of their high-priority values (eg. wages, diversity) and 2) rates the user through their transaction history, based on whether they are sticking to their beliefs

## Leadership Activities

**College Council**, Chicago, IL *September 2017 – June 2018*  
*Class of 2020 Representative*

- Won an election for class representative and voted to approve or disapprove funding decisions of the SG finance committee – which is responsible for disbursing nearly \$300,000 each year