**Hey, I’m Albert Sun!**

I’m a sophomore at Duke University studying **Data Science: Sociology and Racism**, a self-designed Bachelor’s degree program. I’m interested in leveraging academic research and personal narratives to understand structural racism in the legal system.

**What I’m doing now**

I’ve been investigating the intersection between science, policy, and law through as a **Huang Fellow** in Duke’s Science and Society Initiative. I’m working to create the **Huang Fellows Race Committee and Initiative** to invite speakers and lead activist action within the Huang Fellows against America’s structural racism and recent deaths of Ahmaud Arbery, George Floyd, Breonna Taylor.

In addition, I’m expanding my data science toolbox through Duke University’s **Data Plus** **Summer Fellowship**. I’m working with Duke Professor Astrid Giugni and a wonderful team to investigate the early histories of consumerism using Python (concurrent, requests, bs4) to data scrape and R packages (ggplot2, dplyr) to conduct Natural Language Processing, network analysis, and word embeddings (Glove).

**Coming soon: Next Year**

**<strong>Bass Connections</strong>** – #DataAdvocacy. Next year, I’ll be working with Law Professor Brandon Garrett to advocate for a database for jails in North Carolina.

**<strong>Room Assistant</strong>** – #DaycareForBigKids. In the fall semester, I’ll be a RA for freshman kids on Duke’s East Campus.

**<strong>Communications Officer for SSMU</strong>** – #StatisticsMajor. Lead statistical and data undergraduate scholarship on Duke’s campus.

**Big, Beautiful Data**

**<strong>Louisiana Jails</strong>** – Fitted a linear model to research the relationship between private jails, political profile, and percent black to the likelihood of overall releases in Louisiana Jails. Duke ASA DataFest 2020. <a href=”<https://github.com/ben-j-wallace/DataFest>”>Github</a> <a href=”<https://drive.google.com/file/d/1as7WEWrp-ErxobNrGk-K6Xpr9PuwWbK3/view>”>Slide Deck</a>

**Hotels** – Used kNN Classification and a logistic model to create a model that predicts hotel cancellations with an accuracy rate of 96%. [Slide Deck](https://drive.google.com/file/d/1m2AOHDHi1Lt_AtaUdhngVEmptnyP3acc/view?usp=sharing)

**School Organizations**

**<strong>Mock Trial</strong>** – When theater kids meet law. Competed in Duke’s Mock Trial Travel Team at 4 national invitationals. Qualified to Opening Round Championships, but the Coronavirus didn’t let us try to qualify for Nationals. Received 3rd Most-Outstanding Witness Award out of 240 competitors at Vanderbilt University’s Mock Trial Invitational.

**<strong>Music</strong>** – Fun squiggly air waves. Played clarinet for two chamber groups on Duke’s Campus, Devil’s Chamber (Woodwind Quintet) and Kegelstatt (Piano Trio). [Devil's Chamber Performance](https://youtu.be/plaixTHbrcA?t=6816)

Skills:

<!-- <h1 style="font-size:40px;color:#00539B;">Data Projects</h1> -->

<!-- <p align="left" style="font-size:23px"><Strong>Data Plus</Strong> – I expanded my machine learning and NLP toolbox. I worked with a team of Duke professors and graduate students to investigate the early histories of consumerism. We used gensim and multiple other packages in Python and R to conduct structural topic modeling and word embeddings on 26,000 old English texts. <a href="https://bigdata.duke.edu/sites/bigdata.duke.edu/files/site-images/Team%2019\_Data%20Plus%20Poster\_Final\_pdf.pdf">Presentation</a>. <a href="https://github.com/albertyusun/For-the-Love-of-Greed">GitHub</a>. <a href="https://bigdata.duke.edu/projects/love-greed-tracing-early-history-consumer-culture">Project Info</a>.</p> -->

<!-- <p align="left" style="font-size:23px"><strong>Louisiana Jails</strong> – Fit multivariate linear models to research the likelihood of overall releases after COVID-19 in Louisiana statewide jails using data from the Vera Institute of Justice. Found significant correlation for predictors like percent Black, private jails, and political profile. Duke COVID-19 DataFest. <a href="https://github.com/ben-j-wallace/DataFest">GitHub</a>. <a href="https://www.youtube.com/watch?v=t4N2N2TYsuI">Recorded Presentation.</a> <a href="https://drive.google.com/file/d/1as7WEWrp-ErxobNrGk-K6Xpr9PuwWbK3/view">SlideDeck</a>.</p> -->

<!-- <h1 style="font-size:40px;color:#00539B;">School Organizations</h1> -->

<!-- <p align="left" style="font-size:23px"><strong>Duke Stats Major Union</strong> – Imitating Math Majors. Lead statistical and data undergraduate scholarship communication on Duke’s campus.</p> -->

<!-- <p align="left" style="font-size:23px"><strong>Mock Trial</strong> – When theater kids meet law. Competed in Duke’s Mock Trial Travel Team at 4 national invitationals. Qualified to Opening Round Championships, but the Coronavirus stopped us in our tracks. Received 3rd Most-Outstanding Witness Award out of 240 competitors at Vanderbilt University’s Mock Trial Invitational.</p> -->

<!-- <p align="left" style="font-size:23px"><strong>Music</strong> – Fun squiggly air waves. Attended Boston University Tanglewood Institute. Played clarinet for two chamber groups on Duke’s Campus, Devil’s Chamber (Woodwind Quintet) and Kegelstatt (Piano Trio). <a href="https://www.youtube.com/watch?v=plaixTHbrcA&feature=youtu.be&t=6816">Devil's Chamber Performance</a>.</p> -->

<!-- <p align="left" style="font-size:23px"><strong>Room Assistant</strong> – Daycare for freshmen. In the fall semester, I’ll be a RA on Duke’s East Campus.</p> -->

A few of us have created the Huang Fellows <Strong>Racial Equity Committee</Strong>, and we're working to make structural reforms in Duke Science Curriculum and invite speakers in response to recent acts of anti-Black police brutality.