

# ALBERT SUN

Durham, North Carolina

albertyusun.com ♦ albert.sun310@duke.edu ♦ 408-348-1091

## EDUCATION

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### Duke University

B.S., *Data Science: Sociology and Racism* (Self-Designed Degree)

*Expected May 2023*

Overall GPA: 4.0/4.0

· Activities: Huang Fellow in Duke Initiative for Science and Society, Resident Assistant, Duke Chronicle Opinion Columnist, Statistical Science Major Union Communications Officer, Chamber Music

## SKILLS

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### Languages

R, Python, Java, HTML/CSS, Git, Command Line

### R frameworks

ggplot/ggmap (visualization), dplyr, broom, Shiny (dashboard)

### Python frameworks

pandas, BeautifulSoup (scraping), gensim, numpy, scikit-learn

## WORK EXPERIENCE

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### Duke Rhodes Information Initiative

Summer 2020

*Data Scientist*

- Developed infrastructure to scrape, clean, and visualize structural topic models and word embedding models on 26,000 texts from the most comprehensive old English text database (EEBO).
- Investigated class and gender during the Consumer Revolution with Professor Astrid Giugni and a team of Duke graduate students using Natural Language Processing tools for academic publication and conferences.

### Duke Law Center for Science and Justice

May 2020 - Present

*Data Scientist*

- Advocated for data pipelines for the first state-wide jail database in North Carolina with Law Professor Brandon Garrett and a Bass Connections Research Team.
- Used R and Python to scrape data and create a Python/RShiny Dashboard to leverage existing data from California and Texas state jail databases

### Duke Mock Trial

Aug 2019 - Present

*Travel Team Competitor*

- Received 3rd Most-Outstanding Witness Award out of 240 competitors at Vanderbilt University's National Mock Trial Invitational in November 2019.
- Qualified to Opening Round Championships before COVID-19 prevented us from competing.

### Duke University Center on Social Equity

Aug 2019 - Jan 2020

*Research Assistant*

- Summarize, transcribe, and discuss academic articles for Professor Adam Hollowell's paper-in-progress, *Why Stratification Economics Includes Disability Justice*.

## PERSONAL PROJECTS - FIND CODE AT ALBERTYUSUN.COM

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### Duke DataFest 2020: "Mass Incarceration post-COVID"

Fit multivariate logistic 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.

### STA 199L: "Predicting Cancellations"

Trained 96% accurate kNN Classification models to predict hotel cancellations in Portugal.