

# Zhenyi (Annie) Cheng

<https://az-cheng.github.io/>

## EDUCATION

**Cornell University**, College of Engineering, Ithaca, NY  
Bachelor of Science, Operations Research and Engineering

**Expected May 2022**

*Select Courses:* Modeling & Optimization; Machine Learning & Data Structures; Big Messy Data; Intro to Cosmology

## PROFESSIONAL EXPERIENCE

**COMAC Flight Test Center**, *Data Analyst Intern*, Shanghai, China

**July-Aug. 2021**

- Conducted the research of “Aircraft Maneuver Recognition”; Used dimensionality reduction and feature selection to preprocess the data; Built models to identify the specific maneuvers from data provided, methods used including support-vector machines, neural networks, decision trees, etc.
- Assisted in the web design of a real-time monitoring platform; Adapted to work in different programming languages/environment; Communicated with teammates and project manager to find solutions to problems

**Trella Urban Forestry Technology**, *Data & Marketing Intern*, Shanghai, China

**June-Aug. 2020**

- Integrated and standardized current tree species database using python and SQL; Built a new customer database; both were used for product designing, marketing, and branding purposes
- Conducted market analysis and supported the launching of several new products
- Managed the company’s Wechat Official Account platform; wrote weekly articles for the science & story columns

**Boston Consulting Group**, *Assistant Consultant*, Ithaca, NY

**July-Sept. 2019**

- Conducted competitive bench marking and industry best practice research on ESG (environmental, social, and governance) investing in financial services sector; presented to client, which was global investment firm
- Reported directly to project manager; leveraged secondary research (e.g., reports, 10-Ks) and presentation tools (e.g., PowerPoint) to conduct analysis and present findings

## Project Team & VOLUNTEER EXPERIENCE

**CORAL Project Team**, *Data Analyst*, Ithaca, NY

**Feb-Dec. 2019**

- Provided findings on drivers of music popularity and consumption for new song releases on Spotify with goals of helping music streaming platforms and individual artists understand the market and develop strategies accordingly; findings shared with Spotify
- Analyzed 200+ songs released in the last 2 years through modeling in Python; collaborated in team of five, producing a 40-page technical report
- Identified drivers of basketball team performance in March Madness games, such as shooting location and patterns, using linear regression and logistic regression models of 7000+ shots

**Chinese Student Association in North America (CSANA)**, *Chair of Procurement*, Wuhan, China **Jan. 2020-Jan. 2021**

- Dedicated to support medics and ordinary people in the quarantined city in the face of COVID-19
- Raised 900,000+ RMB (127,000 USD) to purchase 50,000+ medical masks, 148,000+ pairs of medical gloves, as well as protective suits, safety goggles, disinfect water, etc., donating to 25 hospitals in the greater Wuhan area
- Headed the Procurement Department of 40 members; standardized the order process & established measures to improve efficiency; identified danger signals & implemented solutions; motivated teammates in time of difficulty

## ADDITIONAL EXPERIENCE

**CS 1110 Python**, Cornell University, *Teaching Assistant/Consultant*

**Aug. 2019-2020**

**Digital Ag Hackathon**, Cornell University, *Project Manager*

**Mar. 2019**

## SKILLS & INTERESTS

**Programs:** Microsoft Office (Excel, PowerPoint), Python, Java, JavaScript, SQL (DDL), R, MATLAB, AMPL, etc.

**Languages:** English, Chinese, French (limited)

**Interests:** Student pilot, Piano, Rock climbing, Yoga & meditation