

# YOUHYUN KANG

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## EDUCATION

**The University of Texas at Austin**, Austin, TX

May 2021

Bachelor of Science in Mathematics, *Specialization in Statistics, Probability and Data Analysis*

Bachelor of Arts in Economics, Minor in Business

**Relevant Coursework:** Applied Statistics, Risk Management, Econometrics, Discrete Mathematics, Elements of Programming

## SKILLS

**Programming Languages & Aptitudes:** Python (NumPy, Pandas), R (R Studio), SQL, STATA, MS Office Suite (\*Advanced Excel)

**Data Science & Miscellaneous Technologies:** Data science pipeline (Cleaning, Visualization, Modeling, Interpretation), Regression (Linear, Multivariable), Statistics, Hypothesis testing

## WORK EXPERIENCE

**IC<sup>2</sup> Institute of University of Texas at Austin**, Austin, TX

May 2020 – July 2020

*Undergraduate Research Intern (Regional Economic Recovery Team)*

- Worked hands-on with Economic Development Corporation of Cameron, TX, to collect and analyze data on Cameron community's assets and economic impact from COVID-19; provided analytic-based recommendations of economic development strategies
- Compared Cameron's COVID-19 economic data with the Census data for Central Texas region using Excel and organized the results into a PowerPoint presentation for institute's Community Asset Mapping Project

**SweetCharm Co.**, Grapevine, TX

February 2019 – Present

*Sales Operations Manager*

- Managed operations of the company-owned donut shop by analyzing sales trends with POS Analytics and Reporting system on Square and interactions with customers
- Increased operational revenue by more than 30% by implementing new product ideas that target wider range of customers and promoting business online presence by initiating the use of online store and social networking sites

**US Army Reserve**, Austin, TX | Pyeongtaek, South Korea

June 2016 – Present

*Tactical Power Generations Specialist, Korean Linguist / Translator*

- Performed maintenance on power-generation equipment in mobile and stationary power plants to maintain power supplies in mission-ready condition
- Translated written and verbal communications from English to Korean and vice-versa to support US and South Korea 2019 joint mission, collaborating with Korean army translators as necessary

## PROJECT EXPERIENCE

- **Cloud Pantry (TamuHack 2021):** Created a web application that uses image recognition to scan and upload photos of groceries in a database to help users recognize groceries items they already own; built with Python, Django and PostgreSQL
- **Chuck-a-Luck Simulations:** Produced a forecasting model of chuck-a-luck game that runs simulations of the game and predicts the number of games to be played by involved players before going bankrupt; created with Python and R
- **The Effect of State Marriage Rates on Happiness:** Wrote research paper that examines the effect of state marriage rates on happiness index; data analyzed with descriptive statistics and linear regression produced using STATA

## LEADERSHIP

**Corporate Organizer**, Austin, TX

February 2020 - Present

*Freetail Hackers (University of Texas)*

- Organized HackTX, the biggest hackathon at the University of Texas, with a team of 25 students; maintained sponsorships and communications with corporate companies, start-ups and other student organizations

**Team La Grange Lead**, Austin, TX

September 2020 – November 2020

*IC<sup>2</sup> Institute Economic Development Student Challenge 2020*

- Led a team of 4 students in economic research to construct a 2-phase economic development proposal for the community of La Grange, TX; Team La Grange was selected as a finalist team to present the research outcomes to the directors and advisory board members in the final round

## INTERESTS

**Languages:** Bilingual in English and Korean

**Activities:** Playing Tennis, Vegan Baking, Weightlifting, Hiking, Jewelry Making