

# Youhyun Kang

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## EDUCATION

### **The University of Texas at Austin**

May 2021

B.S. Mathematics, *Specialization in Statistics, Probability and Data Analysis*

B.A. Economics, Business Minor | Dean's Honor List

*Relevant Coursework:* Econometrics, Applied Statistics, Discrete Math, Mathematical Statistics, Computers and Programming

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## WORK EXPERIENCE

### **IC<sup>2</sup> Institute at The University of Texas**

May 2020 – July 2020

*Research Intern*

- Worked on the Regional Economic Recovery Team to collect data on community assets of Cameron, TX, for institute's Community Asset Mapping Project by conducting interviews with stakeholders and distributing surveys
- Analyzed collected data using Excel to provide economic development solutions that may enhance community's business capabilities

### **Southwestern Baptist Theological Seminary (Police and Security Department), Fort Worth, TX**

May 2017 – August 2018

*Police and Security Dispatcher*

- Oversaw communications system of Campus Police/Security Department as one of four dispatchers on the campus of 3000+ students by coordinating all calls received for police service and prioritizing calls as to the nature and level of emergency
- Created daily reports and handled emergency calls in detail-oriented manner; performed multiple tasks simultaneously under time pressure

### **US Army Reserve**

June 2016 – Present

*Tactical Power Generations Specialist (91D), Korean Linguist (August 2019)*

- Managed and performed maintenance on power-generation equipment in mobile and stationary power plants to maintain power supplies in mission-ready condition; Trained 50+ soldiers on power generation maintenance procedures
  - Translated written and verbal communications from English to Korean and vice-versa to support US and South Korea 2019 joint mission
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## PROJECTS

### **The Effect of State Marriage Rates on Happiness | STATA**

- Used STATA to generate linear regression model to explore possible causes behind decline in US happiness rating with focus on the effect of state marriage rates on happiness

### **Cloud Pantry | Python, PostgreSQL**

- Created a web application that uses image recognition to scan and upload photos of groceries in a database to help users recognize grocery items they already own; collaborated remotely with a team of 4 students

### **Case Study: Using Stents to Prevent Strokes | R, Excel**

- Analyzed stents experiment data utilizing R and Excel; proposed statistical inference and procedures, specifically hypothesis testing involving confidence interval calculations, to test the effectiveness of stents in treating patients at risk of stroke
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## ACTIVITIES

### **Freetail Hackers | Corporate Organizer (Feb 2020 – Present )**

- Organized HackTX, the largest hackathon at the University of Texas, with team of 25 students; coordinated and taught various workshops for over 700 virtual attendees
- Maintained sponsorships and oversaw communications with corporate companies, start-ups, and other student organizations

### **IC<sup>2</sup> Institute Economic Development Student Challenge 2020 | Team La Grange Lead (Sep 2020- Nov 2020)**

- Led team of 4 students 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 proposal to the directors and advisory board members of IC<sup>2</sup> Institute
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## SKILLS

**Technologies** – Python, R, SQL, STATA, HTML & CSS

**Languages** – Bilingual in Korean & English

**Work Authorization** – US Citizen