

# William Tyler Krieger

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## EDUCATION

Trinity University, San Antonio, TX  
Bachelor of Science in Mathematical Finance

May 2021

## PROJECTS

*Consultation for NADBank* through Trinity University September – October 2020

- As a group, analyzed the volatility and value of the Mexican Peso as a researcher for the North American Development Bank in San Antonio.
- Used a combination of quantitative and qualitative research methods to predict volatility, most notably by using GARCH(1,1) through the NumbXL plugin and Microsoft Excel.

*Export Analysis with Tecnológico de Monterrey students* October – November 2020

- Worked (virtually, through Zoom) in a large group with students at Trinity University and at El Tecnológico de Monterrey to create and analyze a case study in which we evaluated export opportunities for a glasses frame company.
- Researched the political, social, economic, and legal positions of various Hispanic countries.
- Used that research to select Spain and Uruguay as particularly interesting markets, and evaluated the currencies of both countries through Purchasing Power Parity and Covered Interest Rate Parity.

*ELO rankings for the Texas Youth Football Association (TYFA)* August – December 2019

- Worked with the leadership and administration of TYFA to create a leaderboard that could properly rank teams based on record, with tie-breakers being a team's ELO rating, used for playoff seeding.
- Modified ELO to TYFA's specifications, and took inspiration from the modifications that FiveThirtyEight implemented into their NFL team evaluations.
- The leaderboard was built in R.

## EXPERIENCE

*Rosella Coffee, San Antonio, TX*

*Barista*

November 2020 - Present

- Used well-honed customer service skills with improving coffee skills to create a safe, clean, welcoming, and enjoyable experience for customers.

## COMMUNITY INVOLVEMENT

*Saxophones, Sam Vincent Groups*

January 2019 - March 2020

- Played saxophones with pianist and composer Sam Vincent at background gigs and local events.

*Trinity University Men's Club Volleyball*

August 2017 -

December 2019

- Represented Trinity University at a variety of volleyball tournaments across Texas.
- Took on an informal leadership/mentor role with more experience.

*Reeds, Chaz Winchester Quartet*

August 2017 - December 2018

- Performed, composed, and co-led the Chaz Winchester Quartet on Saxophones and Clarinets
- Played creative improvised music at a variety of shows and in many contexts (background, festival, opener, etc.)

## SKILLS

Experienced using R, Stata, and Excel  
Developing skills in Python and Tableau