

# Seokchan “Leo” Oh

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## EDUCATION

### Texas A&M University, College of Arts & Sciences

Major: Ph.D., Statistics

College Station, TX

Expected Graduation: May 2030

### Rice University, School of Social Sciences - Cumulative GPA: 3.84

Major: B.A., Mathematical Economic Analysis & Sports Management

Houston, TX

Graduated: Dec 2023

## INDUSTRY EXPERIENCE

### Oklahoma City Thunder

Oklahoma City, OK

#### Analyst Intern

Jun 2025 – Sep 2025

- Developed spatial-based shooting models to project long-term player performance and career trajectory
- Engineered features from player and shot coordinates to model shot success probability
- Built reusable R functions for model validation and player comparison to streamline the evaluation process
- Built interactive Shiny dashboards to allow team personnel to directly query model results and player analytics
- Improved the player evaluation metric by integrating the new model

### Ernst & Young

San Francisco, CA

#### Decision Modeling & Analysis Intern

Jun 2023 – Aug 2023

- Built and validated financial forecast models for a restructuring and valuation deal, incorporating macroeconomic assumptions
- Developed and tested the logic of financial statement forecasts to verify model accuracy and robustness
- Utilized Tableau to aggregate results and present findings to stakeholders

### Eventellect (Unified Ticketing for Sports & Entertainment Organizations)

Houston, TX

#### Underwriting Intern

Nov 2022 – Apr 2023

- Developed Kernel Density Estimation for joint probability density of wins and seeds, researching in proper bandwidth that align with the nature of sports
- Integrated the calculated probability distribution with Vegas Line implied odds to create a model for predicting teams likely to make the playoffs
- Contributed to deals where the underwriting team used the model to justify their budget

## RESEARCH EXPERIENCE

### Rice University - Department of Economics

Houston, TX

#### Honors Thesis

Aug 2023 – Dec 2023

- Mentored by Dr. Mahmoud El-Gamal to explore the dynamic between a pitcher and a batter as a zero-sum static game and determine whether players learn between pitches
- Formulated updating utilities by revising priors with Statcast data
- Developed a novel approach in incorporating prior pitch information into logit Quantal Response Models
- Performed general optimization in R to calculate maximum likelihood and estimate parameters

### Rice University - Department of Sport Management

Houston, TX

#### Undergraduate Researcher

Feb 2023 – Dec 2023

- Mentored by Dr. Hua Gong to analyze Vegas moneyline odds' ability to process available information and predict NBA outcomes
- Scrapped and cleaned relevant NBA game data from publicly available resources
- Researched methods to convert moneyline odds into win probabilities and computed the values

**Rice University - Department of Economics**

Houston, TX

***Undergraduate Capstone***

Jan 2023 – May 2023

- Mentored by Dr. Mallesh Pai to study the effect of stake-pool services' centralization on Ethereum's consensus mechanism
- Analyzed the manipulation of block visibility and centralization in long-range reorg attacks
- Identified necessary conditions for stake-pools to centralize based on fixed and variable fees
- Proved that centralization would lead to a decrease in the variance of favorable situations for the attackers if block visibility adhered to a binomial distribution

**LEADERSHIP & VOLUNTEERING**

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**Rice University - Center for Language**

Houston, TX

***Korean Language Consultant***

Aug 2022 – Dec 2022

- Assisted Dr. Oh, a lecturer in Korean, in tutoring her students who needed additional practice in the course
- Managed 1 on 1 sessions for 12 students, which included preparing students for their exams, providing suggestions on their presentations, and becoming a general resource for those who wanted to practice their Korean
- Taught throughout the semester and noticed significant improvements among students in their general fluency in Korean

**Rice University - Department of Sociology**

Houston, TX

***Undergraduate Research Assistant***

Mar 2022 – May 2022

- Assisted a Ph.D. candidate, Dan Bolger, to analyze non-profit organizations in Third Ward & OST/ South Union
- Utilized ArcGIS to calculate and map the distances between residents and non-profits across 12 service locations
- Analyzed how having to walk an average distance of two miles to non-profits are affecting people's daily lives, highlighting Houston's lack of public transportation and various social stigma against those who use these services
- Designed posters to promote interviews for research data collection

**Rice University - Athletics**

Houston, TX

***Sports Business Project Volunteer***

Oct 2021 – Nov 2021

- Worked with Rice Athletics to determine optimal HEB, a grocery store chain, locations for Rice-Owls themed coffee products
- Compiled geographical data of Rice alums depending on locational frequencies using zip code maps, pairing Rice alums cluster points to the closest HEB locations
- Distributed products to regional HEB stores according to my analysis to raise funds for Rice Athletics

**AWARDS**

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**2025 Cyber Wise Student Data Challenge – 2<sup>nd</sup> Place**

- Recognized for developing an algorithm to detect and identify nodes involved in Advanced Persistent Threat networks

**The Peter Mieszkowski Prize**

- Given to the best research paper written by a student in Rice Economics Honors program

**PUBLICATIONS**

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Oh, S. (2024). How sophisticated are MLB players? *Stanford Economic Review*, 12 (1), 88-101.

**CONFERENCES**

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Oh, S. (2024, April). How sophisticated are MLB players? Presentation at the 23<sup>rd</sup> Carroll Round Conference, Georgetown University, Washington, DC.

**OTHER SKILLS & INTERESTS**

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**Computer:** R, Python

**Language (Non-English; As Applicable):** Korean

**Research Interest:** Bayesian Causal Inference