# Richard Lim

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### **Education**

Villanova University May 2024

B.S. in Statistics; Minor in Mathematics | GPA: 3.52

**Coursework**: Data Science, Algorithms and Data Structures I and II, Applied Statistical Models, Data Base Systems, Linear Algebra, Design of Statistical Experiments, Mathematical Statistics I, Discrete Mathematics, Calculus I, II, and III

### **Experience**

Villanova Baseball Villanova, PA

Data Analyst

February 2022 - Present

- Analyzed opponents' data utilizing R and Synergy Baseball. Communicated findings and analyses with analyst team.
- **Improved team record from 3-13-1 to 16-16** by producing in-depth scouting reports with data analyses on opposing teams' pitching and hitting tendencies.
- **Presented data analyses to coaches** using strong written and verbal communication skills. Developed in-game and developmental strategies with coaches, using analyses.

Villanova Recreation Villanova, PA

Fitness Center Receptionist

August 2021 - Present

- Demonstrated proficiencies in telephone and front desk reception within a high-volume environment.
- Ensured workout areas were in order and cleanliness was maintained during the Covid pandemic.
- Minimized customer complaints through communication with patrons regarding masking policies.

CoSIBS Denver, CO

Fellow

June 2022 – August 2022

- Built a random forest model with an out-of-bag error rate of 3.87%: Implemented machine learning techniques, including random forest modeling, to a large dataset and identified predictors of obesity in American youth.
  - **Developed presentation given to non-technical audience** by using data wrangling and data visualization techniques. Produced models of geospatial distribution, decision trees, and partial dependence plots.
  - **Finished top 6 in a collaborative 6-hour long hackathon**. Implemented machine learning models, including random forest and linear regression to predict the duration of intubation. Presented analysis to panel of judges.

#### **Projects**

## Predicting 2023 NBA Free Agency Per Year Salaries | R / Tableau / Excel

Performed data collection, cleaning, and analysis on Per Game and Advanced stats of 2022 NBA free agents on their most recent playing season. Created a multiple linear regression model and identified significant factors that contributed to per year salary and implemented to 2023 NBA Free Agency class. Created dashboards for visualizing insights with Tableau.

## Performing Full Factorial Design To See Which Factors Affect Free Throw Percentage | R / Excel

Designed and performed a Full Factorial experiment to find which of three factors impact Basketball free throw percentage. Utilized R to generate and analyze interaction plots, ANOVA tables, and residual plots to uncover influential drivers of free throw percentage.

### **Activities**

Sports Analytics Club, Villanova University

August 2021 - Present

Club Sailing, TIDE Representative, Villanova University

August 2021 - Present

• **Elected DEI representative** for team in conference meetings; led team in discourses on diversity, equity, and inclusion and how to present themselves in a predominantly Caucasian sport.

Villanova Leadership Program, Villanova University

January 2022 - April 2022

# Skills

Programming: Python (Matplotlib, Seaborn, Sklearn), R (dplyr, tidyr, ggplot2, Shiny), SQL, Java, HTML

Analysis Techniques: Logistic Regressions, Decision Trees, Random Forests, Hypothesis Testing, MLR Regressions

Tools: Kaggle, R Markdown, Jupyter, PyCharm, RStudio, VSCode, Tableau, Excel (Power Query, V-Look Up, Pivot Tables)

Languages: Fluent in English and Korean, proficient in Spanish