Leonardo Cortez Gentile
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EDUCATION

Williams College, B.A. Statistics & Computer Science (GPA: 3.5), Dean's List **August 2022-June 2026**
Activities: Williams Ultimate Frisbee Organization (WUFO) — Captain ('26), Social Chair ('25)

BASEBALL EXPERIENCE

Fan Data & Insights Intern, Major League Baseball (MLB), New York City, USA **June 2026-August 2026**

- Designed a RAG system leveraging rosters, jersey numbers, headshots, social media captions, and fuzzy matching to improve an in-production, Gemini-based player tagging model, increasing accuracy from 69% to over 77%
- Overhauled the MLB.TV single-game viewership forecasting model using XGBoost and higher-fidelity features, including rolling playoff odds, viewership, unique users, and subscriber counts
- Developed a "Free Game of the Day" ranking algorithm to inform programming and ad-placement decisions
- Engineered an automated "reasons" feature for attendance predictions to explain mispredictions of ±10% or more and identify teams with systematic forecasting bias
- Built a centralized royalty reporting dashboard analyzing transaction data across all 120 Minor League clubs to surface growth trends and top-performing categories
- Delivered presentations to SVP of Business Analytics & Operations and SVP of Business Development on key analytics projects, receiving recognition for work that established the foundation for future predictive models and organizational analytics efforts

Independent Study, Williams College Statistics Department, Williamstown, USA **February 2026-May 2026**

- Modeled the effects of count, pitch sequencing, and pitch tunneling using the 2025 MLB Statcast dataset
- Identified optimal pitch usage adjustments for Marlins pitchers after organizational pitch calling changes
- Concluded that optimized pitch tunneling effect occurs when pitches with tighter separation at the tunneling point need less separation at the plate to be effective
- Compared neural networks to first-order Markov models for whiff prediction and found them to marginally improve predictive capability

Research Fellow, Wilmers Memorial Student Travel Fellowship, Tokyo, Japan **June 2025-September 2025**

- Conducted six-week sabermetric case study of 1,300+ Nippon Professional Baseball (NPB) pitchers, applying multiple linear regression to predict Wins Above Replacement (WAR)
- Developed regression-based models and applied stepwise and interaction selection methods to identify the strongest predictors of NPB pitcher WAR
- Implemented and built upon statistical indicators most predictive of NPB WAR and future MLB success (K-BB%, GB%, SwStr%, xFIP, WPA, etc.)
- Consulted with 6 MLB, MLB Japan, and NPB front office analysts on global scouting strategies and the use of Hawk-Eye and TrackMan data in pitcher evaluation
- Generated scouting reports for 22 top NPB pitchers using data from DeltaGraphs, the 2023 World Baseball Classic, 2024 Premier12 Championship, and Yakyu Cosmopolitan

Research Fellow, Class of 1945 World Fellowship Program, Seoul, South Korea **June 2024-September 2024**

- Coordinated in-depth scouting and comprehensive statistical analysis of 164 Korean Baseball Organization (KBO) pitchers, utilizing 43 advanced performance metrics (WAR, FIP, SIERA, etc.) to assess player potential for MLB transitions
- Utilized advanced statistical techniques and refined predictive models for evaluating player performance using stepwise, ANOVA, VIF, and transformation-based approaches
- Enhanced my comparative evaluation skills across the KBO and MLB talent pools, incorporating insights from a KIA Tigers analyst in Gwangju, South Korea

OTHER SPORTS EXPERIENCE

College Sports Systems Technician, Hawk-Eye Innovations (Rutgers), Piscataway, USA **September 2026-Present**

- Completed onboarding and attended team meetings before live Big Ten football games for the Rutgers Scarlet Knights
- Will support the setup, testing, and operation of Hawk-Eye SMART replay and medical systems on game days
- Will conduct pre-game system checks and troubleshoot hardware, software, and signal-flow issues to ensure reliable technology performance
- Will coordinate with officials, broadcasters, and other Hawk-Eye operators to monitor systems and resolve technical issues in high-pressure live sports environments
- Will install, test, and deploy new Hawk-Eye systems and products to support football operations at the Division 1 level

SKILLS

- **Skills:** SQL, Python, R, BigQuery, Machine Learning, AI, Shiny, Looker, Dataiku, Excel, PowerPoint, C++, Java, HTML, CSS
- **Spoken Languages:** Spanish (Proficient), French (Intermediate), Ancient Greek (Benedict Prize, 2024)