

Permanent Address:
1381 Notre Dame Dr.
Lemont, IL, 60439

Brian G. Papiernik

bpapiern@alumni.nd.edu
630-352-9865

Education

- University of Notre Dame**, Notre Dame, IN August 2017 - May 2021
3.4 cumulative GPA
- Bachelor of Business Administration in Finance
 - 2020 Spring Semester Dean's List in Mendoza College of Business
 - Extracurricular Activities: Member - Student International Business Council, Ronald McDonald House, Special Olympics, Interhall Basketball Captain, Dorm Food Sales, Bengal Bouts Boxing Club
- University of Notre Dame – Mendoza Graduate School**, Notre Dame, IN June 2023 – May 2024
3.95 cumulative GPA
- Master of Science in Business Analytics – Sports Analytics concentration

Work Experience

- Tampa Bay Rays**, Baseball Technology Operator March 2022- October 2023
- Assist in the operation of HawkEye and KinaTrax before and during the game
 - Process and organize contextualized and uncontextualized HawkEye data correctly during the postgame checks
 - Develop a regression model based on each player's Statcast data to estimate if the batter undervalued
- Varsity Baseball Student Manager – University of Notre Dame** September 2017- July 2021
- Prepare and set up each practice, game, and traveling days for 50+ players, coaches, or Irish media each week
 - Record practice and game analytical data and assemble each player's important statistical databases through RVP, Rapsodo, Edgertronic, Trackman, and Tableau for all the coaches and 35+ players
 - Contribute to data visualizations efforts for player development purposes within our Tableau database
 - Assist with creation of Trackman data-driven scouting reports for opposing hitters and pitchers through Synergy
- Levin & Brend PC**, Client Data Analyst, Chicago, IL May 2018-Present
- Office file organization project - organize and place client legal, tax, accounting and family law documents into each client's online database
 - Review client financial documentation and determine classification for business or personal use for tax and business valuations
 - QuickBooks data evaluation for tax reports and business valuations
 - Assist with preparation of client investment analysis through cleaning their financial statements and bank charges
- Chicago Mercantile Exchange Group**, Corporate Procurement Internship June 2020-August 2020
- Research daily about the CME Group's derivatives and futures products for their market
 - Create company order-from connections for possible 7000+ CME suppliers through Workday and Excel
 - Prepare and organize CME Group's database on Workday and Jira
- CourtViz**, CEO and Founder <https://court-viz.vercel.app/> June 2025 – Present
- Built a full-stack NBA analytics website using Next.js, Supabase, and Python, featuring interactive player profile pages with advanced metrics and contextual percentile visualizations
 - Engineered a fully automated data pipeline to update player stats daily from the NBA API into Supabase

Skills

- NBA Tracking Data Injury Prevention Project** <https://github.com/bpapiernik/NBA-Player-Tracking-Injury-Project>
- Develop an XGBoost model to analyze NBA player movements and play-by-play usage metrics to improve injury prevention and load management strategies
 - Integrate and analyze the diverse data sources: NBA tracking data spanned 6.8 million rows over 39 games
 - Identify key variables affecting player injuries and provide insights for adjusting training methods
- March Madness Simulation Project** <https://github.com/bpapiernik/March-Madness-Simulation>
- Develop an XGBoost model using advanced basketball Torvik metrics, Elo Ratings, and Bayesian Performance Ratings of the top 8 players from each March Madness team over the past 10 years
 - Utilize a dataset comprising 10 years of historical performance game data to train the model and run 10000 sims
 - Leveraged the model to analyze and predict the 2024 tournament to calculate round advancement probabilities
- MLB Pitch Clustering Project** <https://github.com/bpapiernik/The-Science-of-Pitching-Clustering>
- Conduct an analysis on pitching strategies by clustering pitch types using advanced statistical methods to analyze performance impact across various game situations
 - Utilize machine learning techniques to segment pitch data effectively for insights into different pitching strategies
 - Develop predictive models for pitching tactics to enhance game-day decisions and overall team performance

Proficient in SQL, Python, Rstudio and Microsoft Office, Excel, Access, and PowerPoint

Experience with QuickBooks, VBA, Tableau, AWS cloud services

Interests: Sports Management, Business side of sports, Coaching, High school sports, Chess