

# Yuntae Ju

Department of Physical Education, Yonsei University  
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## EDUCATION

### Yonsei University, Seoul, Korea

M.S in Physical Education (Exercise Physiology)

2025 -

### Yonsei University, Seoul, Korea

B.S. in Physical Education & B.A. in Economics

2019 - 2023

Graduated in the top 10%

## MAJOR RESEARCH INTERESTS

Statistical machine learning for longitudinal and observational data; interpretable prediction and risk modeling for decision-making; mixed-effects and hierarchical models for heterogeneous populations; algorithmic fairness and accountability in high-stakes decision systems

## PUBLICATIONS

Kim, Y.-H., Lee, J.-H., Ju, Y.\*, Oh, M., & Suh, S.-H. (2025). Satellite cell responses to exercise and nutritional interventions. *Journal of Coaching Development*, 27(10), 299–313.

Lee, J.-H., Kim, Y.-H., Ju, Y.\*, Oh, M., & Suh, S.-H. (2025). Resistance exercise and protein supplementation strategies to overcome anabolic resistance in aging muscle: A review. *Journal of Coaching Development*, 27(10), 314–328.

Ju, Y.\*, Ryoo, H., & Suh, S.-H. (2023). Clustering rookie Korean baseball pitchers and predicting potential by use of machine learning. *Journal of Coaching Development*, 25(2), 190–197.

## MANUSCRIPTS UNDER REVIEW / IN REVISION

Ju, Y., Oh, M., Lee, J., Kim, Y., Jang, S. J., Yoo, J., Park, K.-N., Kim, Y. S., Ryoo, H., Kim, D.-H., & Suh, S.-H.

Performance Modeling for Men's 100m Freestyle: An Artificial Intelligence and Longitudinal Analysis Approach.

*Scientific Reports* — Major revision requested.

Ju, Y., & Suh, S.-H.

Predicting and Explaining Salary Change Rates among KBO Pitchers Using AI-driven Models.

*Scientific Reports* — Under peer review.

Ju, Y., Lee, J., Kim, Y., Kim, D.-H., & Suh, S.-H.

Artificial Intelligence–Driven Athlete Performance Passport for Enhancing Anti-Doping Prediction in Elite Male Weightlifting.

*npj Digital Medicine* — With editor.

## **CONFERENCES**

Ju, Y.\* & Suh, S.-H. (2025). Artificial intelligence-driven athlete performance passport for elite male weightlifting. 67th Sports Medicine Conference, Seoul, Korea.

## **RESEARCH & PROFESSIONAL EXPERIENCE**

|  |             |
|--|-------------|
| Research Assistant, Yonsei University  | 2021-2024   |
| Study on the Establishment of an Anti-doping Platform using Sport Big Data Modeling                        |             |
| Researcher, Frontier Research Institute of Convergence Sports Science,<br>Yonsei University                | 2025 -      |
| Active-Duty Officer, Republic of Korea Marine Corps<br>Honorably discharged as First Lieutenant (Reserves) | 2023 - 2025 |
| ROTC Cadet, Republic of Korea  | 2021 - 2023 |

## **TEACHING EXPERIENCE**

|   |                          |
|---|--------------------------|
| Teaching Assistant, Health Education    | Spring 2025, Spring 2026 |
| Teaching Assistant, Exercise Physiology | Fall 2025                |

## **HONORS & AWARDS**

|  |                  |
|--|------------------|
| Full Graduate Scholarship (M.S. Program), Yonsei University  | 2025 - Present   |
| Jinri Scholarship for Academic Excellence, Yonsei University | 2020, 2021, 2022 |

## **SKILLS**

**Programming & Data Analysis:** Python, R, STATA, MATLAB, Tableau  
**Language Skills:** Korean (Native), English (Fluent), Japanese (Intermediate)

## **MATHEMATICS & STATISTICS COURSEWORK**

Calculus, Linear Algebra, Mathematical Statistics, Real Analysis, Econometrics, Mathematical Economics, Game Theory, Financial Engineering, Business Analytics

## **CERTIFICATION**

KBO Official Scorer, Korea Baseball Organization