# Yuntae Ju

Department of Physical Education, Yonsei University

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## Education

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|---|---|
| M.S. in Physical Education - Exercise Physiology, Yonsei University, Seoul, Korea | Mar. 2025 present |
| B.S.in Physical Education & B.A. in Economics, Yonsei University, Seoul, Korea | Mar. 2019- Feb. 2023 |

## Professional Experiences

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| **Academic Consultant** <br> KUSF Athlete Academic Support Program | Jul. 2025 present |
| **Researcher** <br> Frontier Research Institute of Convergence Sports Science, Yonsei University | Mar. 2025 present |
| **Active-Duty Officer** <br> Republic of Korea Marine Corps <br> (Honorably discharged as First Lieutenant, Reserves) | Mar. 2023 - Feb. 2025 |
| **ROTC cadet** <br> Republic of Korea Marine Corps | Mar. 2021 - Feb. 2023 |

## Publications

**Kim, Y.-H., Lee, J.-H., <u>Ju, Y.</u>\*, 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., <u>Ju, Y.</u>\*, 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.

**<u>Ju, Y.</u>\* 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.

## Presentations

**Artificial intelligence-driven athlete performance passport for elite male weightlifting ,** 67th Sports Medicine Conference, Seoul, Korea (Selected for Final Presentation)

Oct. 2025

## Honors & Awards

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

## Others

### Teaching Experiences

**Teaching Assistant**
Health Education (PED3201)          2025 Spring
2026 Spring

Exercise Physiology (PED3201)          2025 Fall

### Certificate

**KBO Official Scorer**          Feb. 2020
Korea Baseball Organization

### Computer Skills

Python, R, STATA, MATLAB, Tableau

### Mathematics & Statistics Coursework

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

### Major Research Interests

• Machine learning for behavioral modelling and decision-making in elite sports and public physical activity
• Optimization-based AI tools for fair competition, athlete health, and anti-doping strategies
• Socioeconomic analysis of performance disparities, health equity, and access to sport participation