Du Hyun Ro

MD, MS, PhD

Professor and Orthopedic Surgeon
Knee Division, Seoul National University Hospital
CEO, CONNECTEVE

Du Hyun Ro specializes in knee surgery and studies how musculoskeletal imaging, biomechanics and clinical data can inform treatment. His research covers artificial intelligence in musculoskeletal disease, gait analysis and biomechanical simulation, and robotic knee surgery. He completed his medical education and graduate degrees at Seoul National University, and his orthopedic training at Seoul National University Hospital.

Research focus

Musculoskeletal artificial intelligence. Machine learning and computer vision for radiographic assessment, prognosis, surgical planning and perioperative risk prediction.

Gait and biomechanics. Gait mechanics before and after knee surgery, postoperative function, and three-dimensional and finite element modeling.

Robotic knee surgery. Robot-assisted arthroplasty, alignment, clinical outcomes and the development of surgical robotics.

Education and clinical training

MD, Seoul National University College of Medicine, 2008

MS, Advanced Education for Clinician-Scientists, Seoul National University, 2013

PhD, Orthopedic Surgery, Seoul National University, 2026

Internship 2008–2009, orthopedic residency 2009–2013 and Knee Division fellowship 2013–2014, Seoul National University Hospital

Selected academic service and recognition

Managing Editor, Clinics in Orthopedic Surgery. Committee service includes the Korean Knee Society and the industry-academic cooperation committee of the Korean Orthopaedic Association.

Grand Prize, Korea Clinical Datathon 2018. Best Paper Award, Knee Surgery & Related Research, 2024 and 2026. Best Researcher Award, Korean Society for Cartilage and Osteoarthritis, 2026. Best Editor Award, International Congress of Korean Knee Society, 2026.

Professional profile as of April 2026