

2026

DATA SCIENCE CONVERGENCE
RESEARCH CENTER

SEMINAR



Exploring Whale Behavior with Advanced Spatiotemporal Models

DATE

APRIL 10, 2026
11:00 – 12:00 AM

LOCATION

CHUNG-ANG UNIVERSITY
310관 413호

SPEAKER

동국대학교 통계학과 강복경 교수



This seminar presents two complementary statistical frameworks illustrating how spatiotemporal modeling uncovers different aspects of whale ecology. The first employs a Hawkes process model to describe whale calling dynamics, distinguishing background communication from excitation responses and quantifying diel and noise-related effects. The second introduces a joint spatiotemporal species distribution model linking zooplankton availability with whale abundance through a hierarchical data fusion framework, enhancing inference on ecological interactions in a dynamic marine environment.