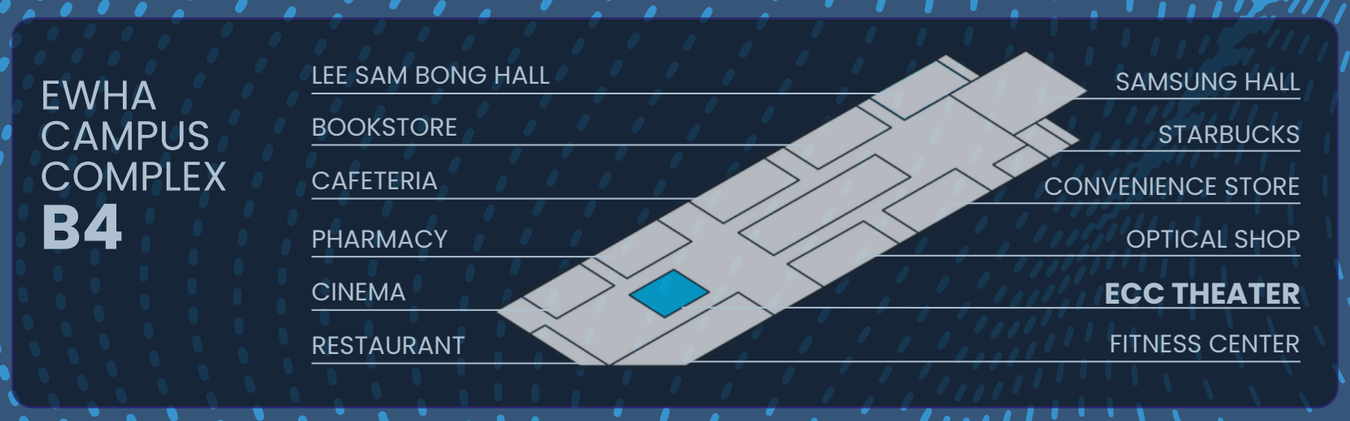
DATA-DRIVEN MATERIALS MODELLING

EWHA FRONTIER 10-10 PHYSICS
PRIQM WORKSHOP

Session 1	Chair: Aron Walsh (Imperial College London, Ewha Womans University)	
10:00 - 10:30	**Aron Walsh** ICL, Ewha Womans Univ.	Welcome and Introduction
10:30 - 11:00	**Seoin Back** Sogang Univ.	From data to discovery: AI discovers electrocatalysts
11:00 - 11:30	**Sooran Kim** Kyungpook Univ.	Machine-learning-guided prediction models and materials discovery for high Tc cuprates
11:30 - 12:00	**Ki-Ha Hong** Hanbat National Univ.	High-throughput screening and machine learning for lead-free halide perovskite development
12:00 - 13:00	Lunch and Poster Presentation	
Session 2	Chair: Hyunsoo Park (Imperial College London)	
13:00 - 13:30	**Jihan Kim** KAIST	Artificial design of porous materials
13:30 - 14:00	**Se-Jun Kim** KAIST	A deep learning model for high dielectric material
14:00 - 14:30	**Jisang Park** Sungkyunkwan Univ.	Cost-effective hybrid density functional theory calculation of semiconductors
14:30 - 15:00	Coffee Break and Poster Presentation	
Session 3	Chair: Seung-Jae Shin (Imperial College London)	
15:00 - 15:30	**Stefan Ringe** Korea Univ.	Towards computational descriptors for electrochemical CO_2 reduction
15:30 - 16:00	**Sungwoo Kang** SAIT	Machine-learned potentials for environmental chemistry
16:00 - 16:30	**Seungwu Han** Seoul National Univ.	Introduction to SevenNet (Scalable EquiVariance-Enabled Neural Network)
16:30 - 17:00	**Yea-Lee Lee** KRICT	Accelerating materials research using machine-learning approaches
17:00 - 17:15	**Aron Walsh** ICL, Ewha Womans Univ.	Discussions and Closing Remarks



EWHA WOMANS UNIV.
ECC THEATER
WED 6TH MARCH 2024
10:00 - 17:15