E&B Seminar Series





Global Arthropod beta-diversity is spatially and temporally structured by latitude

Date

Mar 15th (Fri.)

Time

16:00 (UTC+8)

Venue

3N01 & Zoom



This talk discusses global arthropode ies biodiversity dynamics using a betadiversity framework. Malaise traps were deployed in 129 sampling sites to monitor spatiotemporal changes in arthropod communities. Between-site differences in community diversity were assessed using beta-diversity and the partitioned components of species replacement and richness difference. Our findings show that global total beta-diversity increased decreasing latitude, greater spatial distance, and greater temporal distance. Species replacement and richness difference patterns varied across biogeographic regions. This study supports general expectations of global biodiversity patterns, but shows that the underlying processes driving patterns may be regionally linked.



About speaker:

Mat an Assistant Professor environmental DNA Hong at University. With a background metacommunity/molecular ecology, he specializes in using molecular tools for biomonitoring and studying biodiversity dynamics. Mat has extensive experience working in various habitats, including freshwater. coastal, marine. terrestrial environments. He collaborates with international partners to investigate the drivers of biodiversity, the impact of environmental changes on community health, and the connections to human society. His research aims to provide insights into the stability conservation of natural communities in the face of global challenges.