

BayCEER Kolloquium

Lectures in Ecology and
Environmental Research

Summer 2025



UNIVERSITÄT
BAYREUTH

Donnerstag/Thursday

22.05.2025

12:30 in H6, GEO



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Animal Population Ecology, BayCEER

Microhabitats – Drivers of diversity

Öffentlicher Vortrag im Habilitationsverfahren
Zwischenevaluation

Microhabitats are small, specialized environments within larger ecosystems that provide unique living conditions for various organisms. They can include structures like tree hollows, deadwood or carcasses, each offering specific habitat conditions. These habitats play a crucial role in supporting biodiversity by offering shelter, breeding grounds, and food sources for many species, including insects, fungi, and small vertebrates. Despite their small size, microhabitats significantly contribute to the ecological complexity of ecosystems.

This talk explores the ecological significance of microhabitats, examining the abiotic and biotic factors—on local and landscape level—that shape their biodiversity. We also investigate the population genetic structure of species dependent on microhabitats, highlighting how limited dispersal, isolation, and local adaptation may lead to population genetic differentiation. By integrating ecological patterns with genetic insights, this talk underscores the value of microhabitats for conservation, especially in fragmented or rapidly changing landscapes.

