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Lecture Series Environment & Biodiversity

From food to function: how diet interlinks with behaviour and ecology in wild salmonids

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Wasser Cluster Lunz, Lunz am See

Host: Assoz. Prof. Dr. Jana Petermann



Friday, June 12, 2026, 2:00 P.M.

NLW-Faculty, Room 424, 2nd floor

Research focus:

Evolutionary Biology of Aquatic Organisms





Abstract

Animals depend on the dietary intake of essential biomolecules such as vitamins, amino acids, and fatty acids. Differences in the availability of these nutrients in prey lead consumers to adopt diverse strategies to meet their physiological needs. In this talk, I synthesize research on how human-induced changes in aquatic ecosystems influence the food quality available to wild salmonid fishes, and how this affects their behavioural and ecological performance. I will show how individual fish navigate the trade-offs between what their bodies require and what is available in the streams they inhabit. Drawing on examples from both experimental and field studies, I will outline broader implications for evolutionary ecology and the conservation of wild fish populations.

About

Dr. Libor Závorka - I am a fish ecologist with interest in animal behaviour and eco-physiology. My research focuses on how anthropogenic pressures including climate change and biological invasions, shape the functional phenotypic diversity of aquatic animals.

