Degree project/Exjobb

The evolution of wing morphology

15 & 30 hp/ETCS, 2019/2020

Background. If you are interested in how evolution shape morphological adaptation this project might be perfect for you.

Wings in insects are optimised for foraging, predator avoidance, mating and migration. However, one wing morphology is not optimal for all these purposes: there are trade-offs. The Johansson lab offers two degree projects on the evolution of wing morphology. One on how migration selects for wing morphology (15 ETCS) and one on how wing morphology changes with latitude (30 ETCS).

Aim project 1 (15 ETCS): Examine how migration from India to Africa selects on wing morphology in the migrating dragonfly *Pantala flavescens*.

Aim project 2 (30 ETCS): Show how time constraints (seasonality) affects wing morphology in the damselfly *Lestes sponsa* along a 1750 km latitudinal gradient in Europe

Time: You can start any time of year

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