



**University of
Zurich** ^{UZH}

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

The Ecology, Evolution, Environment & Behavior UZH / ETH Joint Seminar Series

The biogeography of population performance

Speaker: **Prof. Yvonne Buckley**
Zoology Department, Trinity College Dublin, Ireland
<https://www.tcd.ie/Zoology/research/research/buckley/>

Date/Time: Thursday, 2018-03-22
15:00 to 16:00

Place: Y15-G-40/UZH Irchel
Winterthurerstr. 190; 8057 Zürich

Access: only intern

Host: Arpat Ozgul, UZH

Abstract:

Plant populations provide us with food, fuel, building materials and medicines; they colour and shape our landscapes, support wildlife and provide for our health and wellbeing. In order to predict how our plant-based life support systems will respond to the changes we are making to the planet and climate, I describe and explain variation in plant life histories. Plants make their living in diverse ways, by making ecological and evolutionary adjustments to growth, survival and reproduction schedules depending on their environments. Plant populations are exposed to new neighbours and environmental conditions when they are moved to areas outside their historical native ranges. When abroad they largely behave as they do at home but our conscious and unconscious selection of which species get moved shapes their function in new communities. Populations can resist, or are vulnerable to, challenging environmental conditions and by understanding the strategies that plants deploy to persist we can better manage the flow of the benefits they provide.

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