

Soutenance d'HDR - HDR Defense AMAP



David Bauman is Chargé de Recherche at AMAP (IRD), where he studies the demography and diversity of trees in tropical forests and African dry woodlands, in particular how tree growth and survival respond to the interplay of climate, soil, and biotic interactions, and how studying functional strategies can help understand the range of sensitivities observed across the many species found in the tropics.

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2:00 PM – 5:00 PM

Amphithéâtre Jacques Alliot, Bâtiment 4, Lavalette, CIRAD
Online : [Teams link](#)

HDR Defense

Tree demography in a changing climate: Understanding the interplay of responses across scales and contexts in tropical woody ecosystems

presented by

Dr. David Bauman IRD (AMAP)

ABSTRACT: This HDR addresses tropical tree demography and community ecology under climate change, bringing together field data, statistical modelling, and an ongoing effort to better connect ecological questions with the tools to address them. Through work in humid forests and African savannas, it asks how climate, edaphic mosaics, and biotic neighbourhood shape tree growth and survival, and how to better quantify these effects by combining causal inference frameworks, Bayesian modelling, and other approaches. I will present my ongoing and future research axes – the diversity of demographic responses to climate–soil–neighbourhood interactions, the role of functional strategies, and methods to better quantify them – and their connection to my mentoring philosophy: contributing to a research community combining analytical rigour and transparency, grounded in care, equity, and the shared enthusiasm for learning together.

KEY WORDS: Tropical forests, savannas, demography, species coexistence, causal inference.

Jury: Jérôme Chave (CRBE, Toulouse), Stéphane Dray (LBBE, Lyon), Isabelle Maréchaux (AMAP, Montpellier), Georges Kunstler (LESSEM, Grenoble), Myriam Heuertz (BIOGECO, Bordeaux), Camille Piponiot-Laroche (Universiti Putra Malaysia, Selangor, Malaysia)

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Language of PPT: English

Online link (Teams):

https://teams.microsoft.com/l/meetup-join/19%3ameeting_YjIwZmU2ZWYtYTYwYi00NjllLTk2MzItZTYwMGE4MjA2ODBi%40thread.v2/0?context=%7B%22Tid%22%3A%2260af5f90-e3b4-47d6-8c8e-e6d6d2b117b9%22%2C%22Oid%22%3A%22a93e1498-ed74-4b40-85d5-419e4acfabbd%22%2C%22IsBroadcastMeeting%22%3Atrue%2C%22role%22%3A%22a%22%7D&btype=a&role=a



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