Séminaire / Seminar **AMAP**

Tom is currently a PhD student at UMR AMAP – CNRS, Montpellier, France. Working on plant architecture, anatomy and biomechanic, he is interested in understanding the diversity of life-histories in climbing plant's growth forms using structure-function based and kinematic approaches.

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31 MARS 2023
14h00 – 17h30

Salle Télé Enseignement (Amphi IRD) - IRD - Délégation régionale Occitanie 911, avenue Agropolis BP 64501 F-34394 Montpellier cedex 5

SOUTENANCE DE THESE

Structures, functions, and movements of searcher shoots in climbing plants

presented by

Tom HATTERMANN

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ABSTRACT

Climbing plants must move from branch to branch to reach the light. To do so, diverse species produce shoots of various shapes and properties capable of crossing voids and seeking support. Some are short, thin, and light while others are long, branched, and leafy. Over time, some make movements that sweep across large spaces while others do not express any complex movements. It shown that there is a great diversity of ways for climbing plants to cross spaces in search of supports on which to climb. The observations made provide a wide survey of climbing plants adaptations that are of interest to better understand the functioning of forest ecosystems and inspire the development of new technologies in soft robotics.

KEY WORDS

Climbing plants (liana) ; Searcher shoot ; Biomechanics ; Functional anatomy ; Plants movements

Invited and animated by:	Tom HATTERMANN (UMR AMAP)
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