

Assessing Ecological Integrity in Mexican Forests: Trends, Challenges, and Conservation Implications

Oscar Godinez, PhD Student

School of Natural Resources and Environment
University of Florida



BIO

Oscar Godinez is a biologist with a master's degree in Integrative Ecology from Michoacan University, México. He is a PhD student in Interdisciplinary Ecology from the School of Natural Resources and Environment, supervised by Dr. Robert Fletcher and Robert McCleery. His PhD is a collaborative work developed in partnership with the National Commission for Knowledge and Use of Biodiversity (CONABIO). Oscar explores how human-induced changes influence biodiversity, combining ecological research, conservation biology, spatial analysis, and community-based monitoring to support inclusive and effective conservation.

SUMMARY

Mexico's forests support extraordinary biodiversity but are increasingly shaped by climate pressures, deforestation, and land-use change. Understanding how these forces influence ecological integrity across different forest types is essential, yet many patterns remain unclear. In this talk, he presents a national-scale assessment of long-term changes in ecological integrity using remote sensing, ecological indicators, and machine-learning tools, along with emerging efforts to monitor integrity at local scales through participatory, community-based monitoring. Together, these approaches offer a broader view of how Mexico's forests are changing and how integrity can be tracked across multiple scales.



Tuesday - December 02, 2025

12:45 - 1:45 pm



Grinter Hall 376 or

[Zoom link](#)

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