

*The University of Florida Tropical Conservation and Development Program (TCD), the  
TCD Student Group & the Center for Latin American Studies present*

## **TROPILUNCH**

# **PERSISTENT IMPACTS OF MORE THAN 20 YEARS OF TROPICAL RAIN FOREST FRAGMENTATION ON CANOPY STRUCTURE WITH LIDAR REMOTE SENSING**

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**TUESDAY, JANUARY 23**

**12:45 – 1:45**

**GRINTER 376**

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### **SUMMARY**

The consequences of fragmentation for structure and function of tropical forest ecosystems are critical for understanding global change. While forest structure is integrally linked with functions such as biomass storage, little is known about these links in fragmented forests. Sampling forest structure over large heterogeneous fragmented landscapes has not been possible for carbon cycle assessment in the past. Here, we investigated canopy structure and forest function at a large scale by associating canopy variables from portable ground lidar (PGL) and airborne laser scanning (ALS) surveys with long-term forest inventories in a large controlled fragmentation study (Biological Dynamics of Forest Fragments Project - BDFFP, central Amazon). This study demonstrates consistent links between fragmented forest structure and function, and the importance of lidar for understanding the carbon cycle consequences of forest change

*Tropilunch is a weekly seminar run by graduate students from the Tropical Conservation and Development (TCD) Program. It provides a forum for a range of discussions and presentations related to TCD work and research. Special guests, visiting scholars and practitioners also participate. It happens every Tuesday @t 12:45 – 1:45 p.m. in Grinter 376. Tropilunch presentations are recorded and posted weekly on [TCD's YouTube Channel](#).*

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**BIO:**

Danilo is a PhD candidate in Forest Resources at the University of São Paulo (ESALQ/USP). His work focuses on forest ecology, forest fragmentation, forest restoration and LiDAR remote sensing. Danilo completed his Master's degree in Tropical Forest Science at Brazil's National Institute for Amazonian Research (INPA) and the undergraduate in Forest Engineer at Federal University of Viçosa (UFV).



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