



University of Miami, Physics Department Colloquium

Date: Wednesday, Nov 12, 2025
Time: 4:00 pm – 5:00 pm
Location: Physics Library – Rm 335, Knight Physics Building

Circuits and Algorithms to Extract Visual Features from Scenes

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Abstract

Sighted animals rely on sophisticated inferences to extract useful information from scenes. In the fruit fly *Drosophila*, powerful tools allow us to investigate how individual neurons contribute to these computations. In this talk, I will present (1) recent work that discovered the circuits used by fruit flies to estimate the distance to visual objects and (2) a set of studies that show how visual motion estimation algorithms relate to symmetries in natural scenes.