

## Sun, Space Weather, and Solar-Stellar Connection



Contribution ID: 118

Type: **Invited talk**

# Anomalous Rotators and New Evolutionary Pathways in Red Giants

*Thursday, January 23, 2025 11:55 AM (20 minutes)*

Stellar pulsations offer valuable insights into the internal structure and rotation profiles of stars. The availability of high-quality observations from numerous space-based instruments makes it possible to pursue ensemble analyses on an unprecedented scale. To this end, we have used machine learning to accelerate these studies by several orders in magnitude. I will describe how deep learning models applied to Kepler observations have revealed new physical insights into angular momentum transport, magnetism and structure evolution in the red-giant phase.

## Contribution Type

### Theme

Solar - Stellar Connections

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