GRADUATE COURSE · SPRING 2027

NEW COURSE ALERT

Climate Modeling: Physical Foundations & AI

MET 6155 · Advanced Topics in Climatology



$$\approx f(x)$$



How do we describe Earth's climate system?

x: our best knowledge

Physics-based models

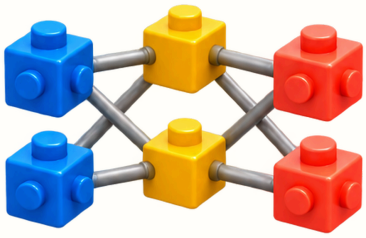


Energy balance model

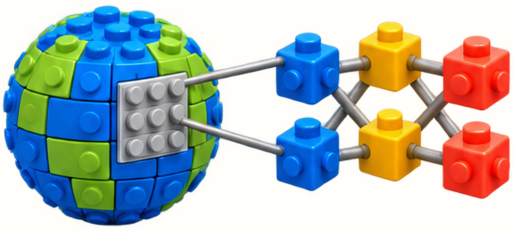


General circulation model (GCM)

Data-driven models



Neural network



Hybrid model (physics + AI)

WHO SHOULD TAKE IT?

For students with **some programming experience**, an interest in climate modeling, and a general background in meteorology, climate science, oceanography, computer science, or applied mathematics.
No prior machine learning experience required. Questions? Email melodylu@fsu.edu.

WHEN

Mondays & Wednesdays
9:35–10:50 AM

WHERE

EOAS 1044

INSTRUCTOR

Kezhou (Melody) Lu
Assistant Professor, Earth, Ocean & Atmospheric Science
Email: melodylu@fsu.edu

Flyer designed with the help of Codex and Claude