

# Have you ever wondered how Jupiter gets its stripes?

$$\frac{\partial \mathbf{v}}{\partial t} + (\mathbf{v} \cdot \nabla) \mathbf{v} = -2\boldsymbol{\Omega} \times \mathbf{v} - \frac{1}{\rho} \nabla p - \nabla \Phi$$

Image generated by ChatGPT 4

MATH-GA.3001-001

## Geophysical Fluid Dynamics

Instructor: Yi Zhang (y.zhang@nyu.edu),

Assistant Professor in Mathematics and Atmosphere/Ocean Science

Prerequisites: undergraduate ordinary and partial differential equations;

a course in fluid dynamics is recommended but not required

Join us for a whirlwind journey into rotating fluid dynamics

Fall 2024 | Every Tuesday and Thursday | 9:30-10:45 AM | WWH 517