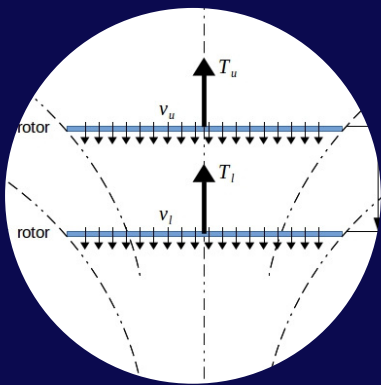


# POWER MINIMIZATION ON FIXED-PITCH COAXIAL ROTORS



Fixed-pitch coaxial, contrarotating rotors are often used in large multirotor aircraft in applications ranging from payload delivery to urban air mobility.



This presentation will examine the potential of minimizing net hover power at a given thrust for a coaxial pair using both an analytical approach and experimental results.

The problem analyzed here serves as an example of live algorithms providing performance improvements in overactuated vehicles



## TOMAS OPAZO

Graduated from Electrical Engineering in 2013 (U. de Chile), worked for 3 years in a research Lab before moving to United States where he studied a PhD in Aerospace Engineering (2022). He is interested in autonomy and intelligence of unmanned aerial vehicles, control allocation and optimization of over-actuated systems.