

1. **Research Title:** Multi-modal Commercial Satellite Exploitation
2. **Individual Sponsor:**

Julie Moran
AFRL/RYA Bldg 620
2241 Avionics Circle
WPAFB, OH 45433-7333
Julie.moran@us.af.mil

3. **Academic Area/Field and Education Level**

Electrical Engineering or Computer Science (MS or PhD level)

4. **Objectives:** This project will explore the fusion opportunities for various commercial satellites. This would include consideration of MAXAR EO/PAN, MSI and SAR satellites, Planet Labs EO/PAN and MSI satellites, BlackSky Global EO/PAN and NIR video, Capella Space SAR, and Hawkeye 360 UHF and L-Band RF satellites.
5. **Description:** This project would first seek to understand the feasibility of ordering and accessing data and products from these commercial satellites. Sensor capabilities will be investigated to include understanding sensor coverage and opportunities for distributed sensing observations on common targets or regions of interest. This project will explore sensor-specific collection configurations that can be requested for optimized observation (e.g. band selection, revisit rate). In addition, existing exploitation and fusion algorithms will be researched for potential application to commercial satellite data received for this project.
6. **Research Classification/Restrictions:** No foreign nationals.
7. **Eligible Research Institutions:** All Ohio Universities are eligible.

NOTE: Topics submitted to DAGSI must be approved for public release. Need PA Approval #