

Space Workshop

Yunus Emre Özdemir

UNISON-Turkey



Agenda

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About Myself

Yunus Emre Özdemir

Sophomore Aerospace Engineering Student at METU

Focus Areas:

- CubeSat Computing & Communications
- Rover Autonomy & Navigation

Team Involvements:

- University Rover Team
- University Satellite Team

Competition Experience:

- Mission Idea Contest Finalist (2023)
- Anatolian Rover Challenge Finalist (2023)



Middle East Technical University

Department of Aerospace Engineering

Established Aerospace Program since 1981

Over 40 Years of Excellence in:

- Satellite Design & Development
- Aircraft Manufacturing
- Unmanned Aerial Vehicles



ORTA DOĞU TEKNİK ÜNİVERSİTESİ
MIDDLE EAST TECHNICAL UNIVERSITY

UNISON-Turkey

Initial Team Members



Helin

Workshop
Coordinator



Eren

Technical Lead



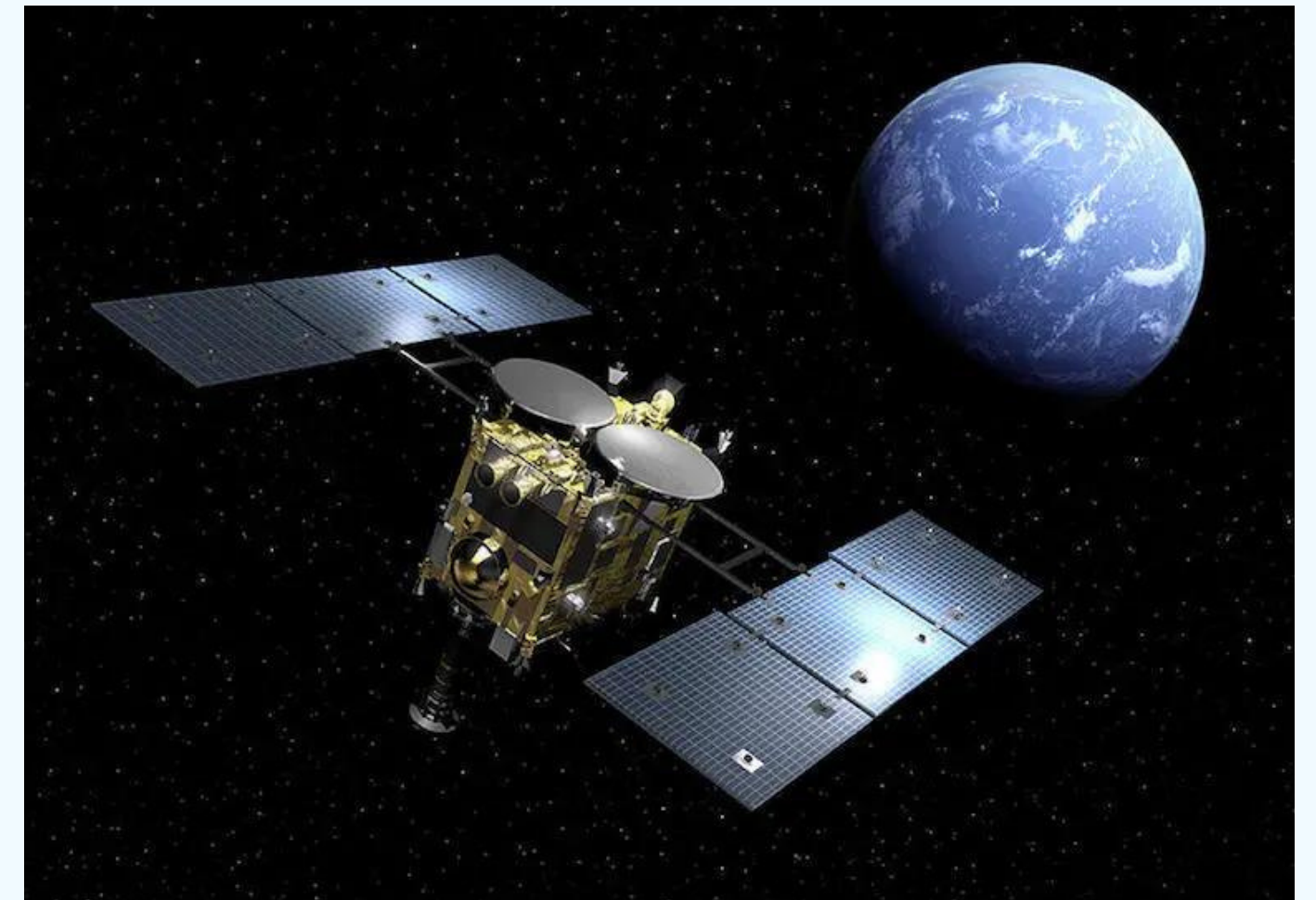
Akif

Workshop Partner

Satellite Workshop

Why We Need Satellite Workshops?

- **No Workshops Offered:** Undergraduates lack access to satellite workshops here.
- **Deeper Knowledge:** Participants gain a deeper understanding of satellite technology.
- **Career Inspiration:** Spark student interest in satellite careers.



Part 1: Data Analysis

Learn to analyze data from various sources to extract valuable insights.

Learning Objectives: Data acquisition for satellite projects using freely available platforms like NASA EOSDIS, USGS Earth Explorer, ESA Open Data Portal, and Google Earth Engine.



Google Earth Engine



Part 2: Hands-On Learning

Learn to assemble and program a functional satellite model.

Learning Objectives:

- Understand satellite subsystems
- Learn basic coding principles for satellites
- Gain practical experience



**HELLO
SPACE**



Part 3: Presentations

Engage with Leading Educators and University Teams

- **Deep Dives:** Renowned satellite experts will deliver presentations
- **Future Focus:** International university teams will present their experience.



Target Audience & Location

Undergraduate Students

Middle East Technical University, Ankara, Türkiye

Timeline

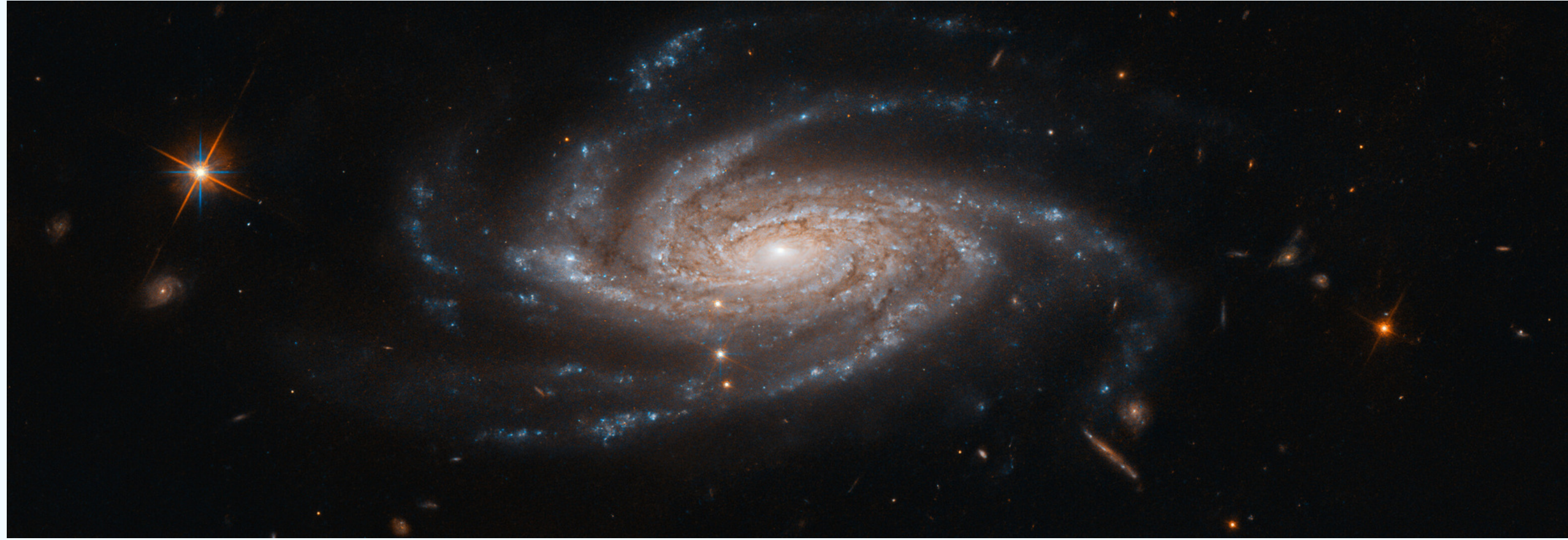


Outcomes & Significance

Kick-start for UNISON-Turkey

- **Regional Hub:** Satellite learning hub at METU
- **Global Connections:** Initiating international collaboration





Thank you for listening!

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