



Drone Technology and Applications Certificate Program

HARPER COLLEGE BOARD OF TRUSTEES PRESENTATION. WEDNESDAY. NOVEMBER 17TH, 2021

PRESENTED BY: DARICE TROUT (INTERIM DEAN , BUSINESS AND SOCIAL SCIENCE), MUKILA MAITHA (ASSOCIATE PROFESSOR, CHAIR & PROGRAM COORDINATOR, GEOGRAPHY DEPARTMENT), ANGÉLICA AVALOS (HARPER STUDENT), FERNANDA DE SOUZA RAMOS KUZUHARA (HARPER STUDENT), JACQUELINE COONEY (HARPER GRADUATE)

Highlights



- Fall 2015: Geographic Information Systems
 - Spring 2021: Drone Technology and Applications Certificate
 - June 2021: FAA Unmanned Aircraft Systems-Collegiate Training Initiative (UAS-CTI)
 - October 2021: Representative Casten / FAA's Regional Administrator Visit
 - November 2021: NSF 2022 Mentor-Connect invitation
- US Dept. Of Labor:
"Bright Outlook"
Opportunities

Campus Collaboration



- Provost: New programs support
- Career and Technical Programs: Perkins Funding
- Educational Foundation: Resources for Excellence Grant
- Marketing/Communications
- IT/ Facilities

Innovation and Strategic Goal Alignment



- First aviation program at Harper
- First FAA UAS-CTI college in northern Illinois
 - 500+ zip code potential recruitment area
- Aligns with Harper's goals
 - Teaching and learning
 - Student success

Distinctive Features



- Comprehensive UAS curriculum
- UAS/Geospatial workforce skills and knowledge
- Accessibility (online and blended modalities)
- Affordability and equity (campus facilities, OER)
- Experienced faculty

Curriculum



A 16-hour certificate that provides students with the skills and knowledge necessary receive a **pilots license** and to work in a variety of domains as **pilots, imagery specialists, or remote sensing technicians.**

NSF Mentor-Connect



- Harper selected for a mentoring program to prepare a faculty-led National Science Foundation (NSF) Advanced Technical Education (ATE) grant in 2022 to support
 - A UAS Learning Center/Hub
 - Interdisciplinary remote sensing and STEM learning opportunities for students and faculty
- The Harper team is composed of
 - Mukila Maitha (Principal Investigator, Geography)
 - Crystal Peirce (Co-Principal Investigator, Biology)
 - Magdalena Dolas (Grant Writer)
 - Darice Trout (Administrator)

STUDENT PRESENTER

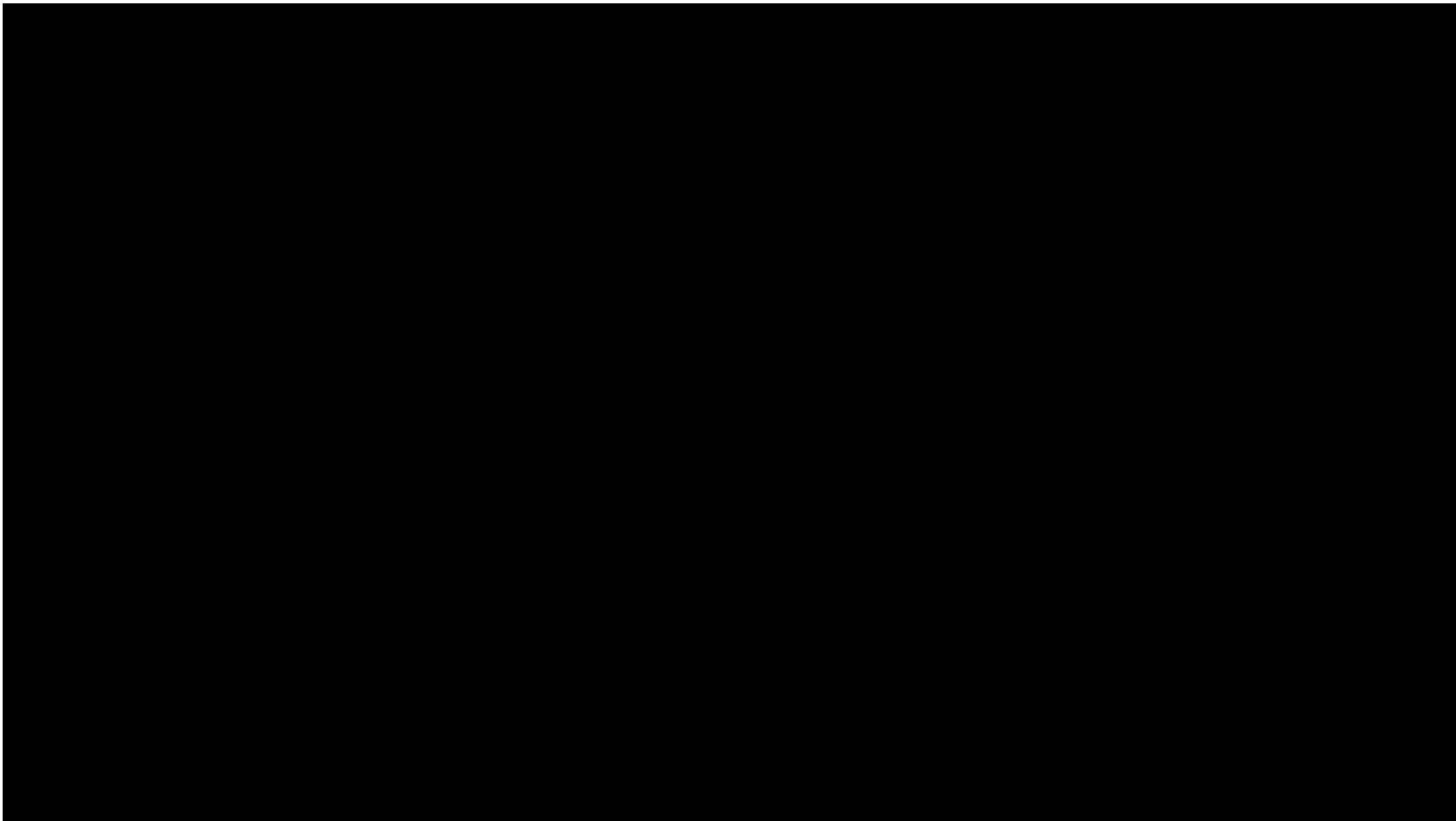


Angelica Avalos

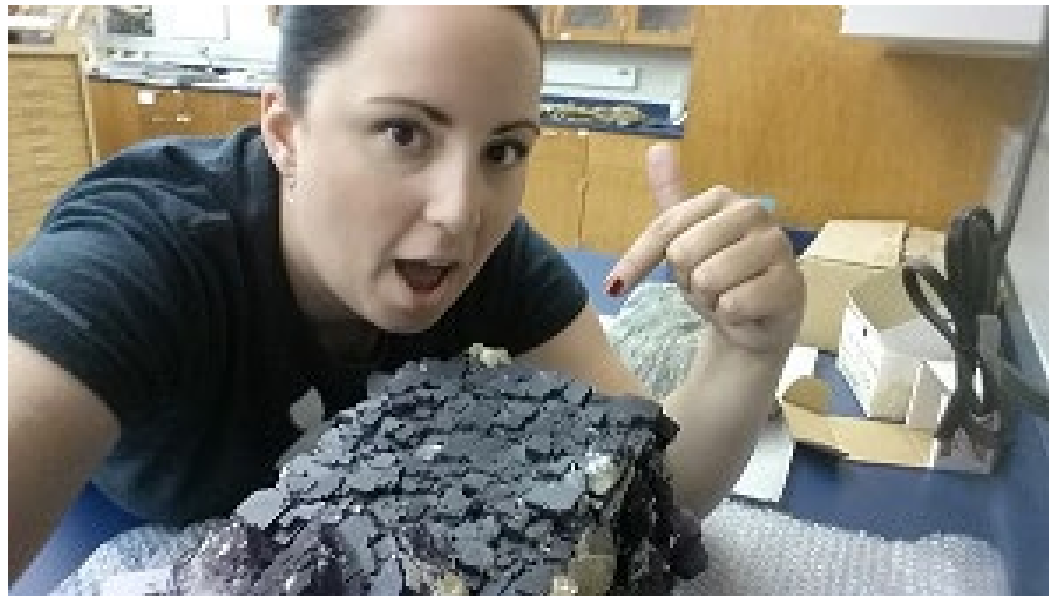
STUDENT PRESENTER



Fernanda de Souza Ramos Kuzuhara



GRADUATE PRESENTER



Jacqueline Cooney