

2024 Grant Awards

Faculty across the College of Science are leaders in receiving peer-reviewed federal and state grants to support our students and research laboratories.

Initial Awards in November and December

Analysis of Data from Cooling Tower Plume, Task 2

Initial Award: 12/16/24

PI: Carl Salvaggio

Developing detailed Emission Source Terms for Next-Generation Wildland Fire and Smoke Modeling Tools using improved near-field fire measurements

Initial Award: 12/06/24

PI: Robert Kremens

Frameworks: E=mc² - Enabling Multimessenger Astrophysics through Community-driven Cyberinfrastructure

Initial Award: 11/26/24

PI: Yosef Zlochower

DIRSIG Support to Aret for the US Navy Coastal Battlefield Reconnaissance and Analysis (COBRA) System

Initial Award: 11/11/24

PI: Adam Goodenough

POPPIES: The Public Observation Pure Parallel Infrared Emission-Line Survey

Initial Award: 11/07/24

PI: Jeyhan Kartaltepe

Initial Awards in September and October

Deep Spectroscopy of Galaxies at z=4-14: Uncovering Drivers of Early Galaxy Formation and Black Hole Growth

Initial Award: 10/10/24

PI: Rebecca Larson

Development of High-Efficiency Multi-Junction Quantum Well Solar Cells

Initial Award: 10/01/24

PI: Seth Hubbard

Freeform Direct Writing of Waveguide Lasers Integrated with Bragg Gratings

Initial Award: 09/17/24

PI: Jie Qiao

A Comprehensive Approach Towards Enhancing Calibration, Validation, and Uncertainty Characterization of the Landsat Thermal Sensors and Archived Data

Initial Award: 09/17/24

PI: Aaron Gerace

The CANDELS-Area Prism Epoch of Reionization Survey (CAPERS)

Initial Award: 09/13/24

PI: Jeyhan Kartaltepe

Space Strategic Technology Institute Advanced Space Power Materials and Architectures (SSTI-ASTROMAT)

Initial Award: 09/05/24

PI: Seth Hubbard

Initial Awards in July and August

Development of a Sub-Kelvin Testbed for Characterization of On-Chip Far-Infrared Integrated Spectrometers

Initial Award: 08/22/24

PI: Michael Zemcov

How does ember production and dispersal distance vary with pre- and post-treatment fuelbeds and weather?

Initial Award: 08/21/24

PI: Robert Kremens

X-Ray and UV Optics for Light-Source and Astronomical Applications

Initial Award: 08/01/24

PI: Zoran Ninkov

Development of High-Efficiency Multi-Junction Quantum Well Solar Cells

Initial Award: 07/16/24

PI: Seth Hubbard

Initial Awards in May and June

WoU-MMA: Continuous Gravitational Waves: from Searching to Observing

Initial Award: 6/28/24

PI: John Whelan

Ultrafast laser inscription of scattering objects for the Turbulent Bacon Laser Assembly Surrogate

Initial Award: 6/22/24

PI: Jie Qiao

Day in the Life of Oswego River

Initial Award: 6/21/24

PI: Kaeti Stoss

Creating Stable and Periodic Arrays of Molecular-Scale Liquid:Liquid Interfaces for Chemical Reactions

Initial Award: 05/21/24

PI: Jian Liu

The Role of Galaxy Mergers and Interactions in Fueling Star Formation and Black Hole Activity

Initial Award: 05/14/24

PI: Jeyhan Kartaltepe

Lake Ontario Center for Microplastics and Human Health in a Changing Environment-Administrative/Facilities/Research/Community

Engagement Core

Initial Award: 05/05/24

PI: Anna Tyler

Initial Awards in March and April

General aperture freeform high-definition metrology using reconfigurable CGH powered by deep learning (Year 3)

Initial Award: 04/24/24

PI: Jie Qiao

Conference: Tracing Binary Star Metamorphosis: Chandra+JWST Imaging of Bipolar Planetary Nebulae

Initial Award: 04/23/24

PI: Joel Kastner

REU Site: Multimessenger Astrophysics

Initial Award: 04/22/24

PI: Jeyhan Kartaltepe

Ultrafast Laser Figuring and Finishing of Freeform Optics (Year 2 and Year 3)

Initial Award: 04/21/24

PI: Jie Qiao

Analysis of occupations, expertise, and educational pathways within the quantum information science and technology workforce in industry and government

Initial Award: 04/01/24

PI: Benjamin Zwickl

The X-Ray Nature of the Young EXOPLANET TOI 1227B

Initial Award: 03/14/24

PI: Joel Kastner

Conference: Diffuse Cosmic Backgrounds and the Low Surface Brightness Universe

Initial Award: 03/14/24

PI: Michael Zemcov

Initial Awards in January and February

Viral vector-mediated gene activation to facilitate large-scale genetic analysis in *Caenorhabditis elegans*

Initial Award: 02/13/24

PI: Maureen Ferran

NIH DEIA Prize Competition- Inclusive Excellence and RISE Programs

Initial Award: 02/12/24

PI: Lea Michel

NIH DEIA Prize Competition- Inclusive Excellence and RISE Programs

Initial Award: 02/09/24

PI: Lea Michel

Advancing Radiation-Hardened CMOS Detectors for NASA Missions

Initial Award: 02/05/24

PI: Don Figer

Supplement request to NSF Includes Alliance: Incisive Graduate Education Network

Initial Award: 02/05/24

PI: Casey Miller

Using Body-worn Camera Footage for Training and Continual Improvement in Constitutional Policing

Initial Award: 01/26/24

PI: Ernest Fokoué

Design and Fabrication of Arrayed Waveguide Grating Using Ultrafast Laser Inscription

Initial Award: 01/16/24

PI: Jie Qiao

The COSMOS High-z ALMA-MIRI Population Survey (CHAMPS): A Wide-Area Comprehensive Survey of the Dusty Universe

Initial Award: 01/04/24

PI: Jeyhan Kartaltepe