



[Brian Argrow](#)

- Professor, Aerospace Engineering Sciences
- Research & Engineering Center for Unmanned Vehicles (RECUV)
- Director, Integrated Remote & In Situ Sensing (IRISS)

Research Focus Areas:

- Unmanned aerospace vehicles (UAVs)
 - High-speed and hypersonic aerodynamics
 - Dense gas dynamics
 - Rarefied gas dynamics
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[Li Baowen](#)

- Professor, Mechanical Engineering

Research Focus Areas:

- Acoustic waves
 - Applied physics
 - Computer modeling
 - Energy release/transport
 - Nanotechnology
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[Stephen Becker](#)

- Assistant Professor, Applied Mathematics

Research Focus Areas:

- Information extraction from various types of data sets
- Optimization
- Numerical linear algebra
- Sampling theory
- Compressed sensing and variants

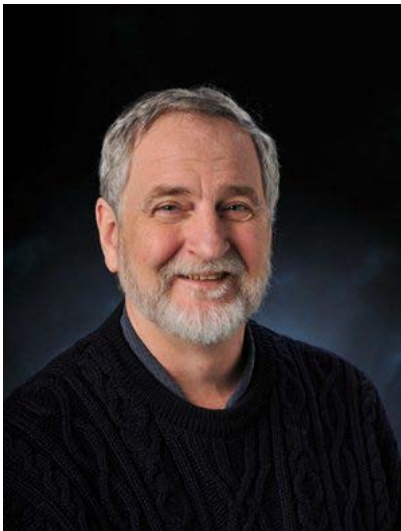


[Jed Brown](#)

- Assistant Professor, Computer Science

Research Focus Areas:

- Efficient structure-exploiting solvers for multiscale, multiphysics, and heterogeneous problems
- Compatible and high-order solver-friendly discretizations
- Optimization, data assimilation, and experimental design
- Robust, modular, high-performance parallel software
- Metrics for communicating trade-offs in algorithms and hardware

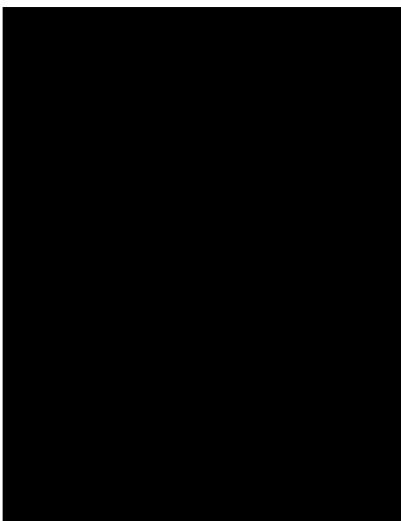


[Webster Cash](#)

- Professor, Astrophysical & Planetary Sciences
- Professor, Aerospace Engineering Sciences
- Center for Astrophysics & Space Astronomy (CASA)

Research Focus Areas:

- Astrophysics
- Instrumentation
- Techniques (Physical Sciences)
- Optics
- Radiosources
- Infrared
- X-ray, Gamma Ray
- Spectroscopy



[Scot R. Elkington](#)

- Research Scientist, Laboratory for Atmospheric & Space Physics (LASP)

Research Focus Areas:

- Storm-time radiation belt dynamics processes
- Space weather forecasting
- Global magnetospheric circulation modeling



[Frank Eparvier](#)

- Senior Research Scientist, Laboratory for Atmospheric & Space Physics (LASP)

Research Focus Areas:

- Space weather
- Solar irradiance variability and its effects on the upper atmospheres of the Earth and other planets



[Brian Fleming](#)

- Research Scientist, Laboratory for Atmospheric & Space Physics (LASP)

Research Focus Areas:

- Ultraviolet space instrument design, fabrication, and calibration
- Energetic radiation escape from local galaxies
- Development of advanced mirror coatings for next generation broadband observatories
- Concepts for the first far-ultraviolet integral field spectrograph



[Dejan Filipovic](#)

- Associate Professor, Electrical, Computer & Energy Engineering
- Graduate Director, Electrical, Computer & Energy Engineering
- Antenna Research Group

Research Focus Areas:

- Electromagnetics
- RF and microwaves
- Antenna theory and design



[Eric Frew](#)

- Associate Professor, Aerospace Engineering Sciences
- Director, Research & Engineering Center for Unmanned Vehicles (RECUV)
- Integrated Remote & In Situ Sensing (IRISS)

Research Focus Areas:

- Networked heterogeneous unmanned aircraft systems
 - Optimal distributed sensing by mobile robots
 - Controlled mobility in ad-hoc sensor networks
 - Miniature self-deploying systems
 - Guidance and control of unmanned aircraft in complex atmospheric phenomena
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[Albin Gasiewski](#)

- Professor, Electrical, Computer & Energy Engineering
- Integrated Remote & In Situ Sensing (IRISS)
- Center for Environmental Technology

Research Focus Areas:

- Electromagnetics
 - RF and microwaves
 - Remote sensing
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[Juliet Gopinath](#)

- Assistant Professor, Electrical, Computer & Energy Engineering
- Assistant Professor, Physics

Research Focus Areas:

- Optics and photonics
- Nanostructures and devices
- Ultrafast lasers
- Spectroscopy
- Orbital angular momentum
- Materials
- Nonlinear and integrated optics



[Laura Hale](#)

- Systems Engineer, Laboratory for Atmospheric & Space Physics (LASP)

Focus Area:

- Space weather



[Nils Halverson](#)

- Director, Center for Astrophysics & Space Astronomy (CASA)
- Associate Professor, Astrophysical & Planetary Sciences
- Associate Professor, Physics

Research Focus Areas:

- Cosmic microwave background experimentation
- Mm- wave instrumentation development efforts



[Chris Heckman](#)

- Assistant Professor, Computer Science
- Autonomous Robotics & Perception Group

Research Focus Areas:

- Robotics
- Control theory
- Nonlinear dynamics
- Computer perception
- Autonomous vehicles



[Brian Johnson](#)

- Manager, NASA Distributed Active Archive Center (DAAC)
- National Snow and Ice Data Center

Research Focus Areas:

- Remote sensing
- Data analysis
- Science data management



[Will Kleiber](#)

- Assistant Professor, Applied Mathematics

Research Focus Areas:

- Spatial statistics
- Stochastic weather generators
- Calibration, emulation and validation of geophysical models
- Statistical climatology



[Delores Knipp](#)

- Research Professor, Aerospace Engineering Sciences
- Colorado Center for Astrodynamic Research (CCAR)

Research Focus Areas:

- Atmospheric and space physics
- Upper atmosphere electrodynamics
- Plasma physics
- Satellite drag
- Space weather as a system
- Data assimilation



[Shelley Knuth](#)

- Director of Analytics Hub, Earth Lab
- Assistant Director of Research Data & Training, Research Computing

Experience:

- Data management
- Quality control



[Julie Lundquist](#)

- Assistant Professor, Atmospheric & Oceanic Sciences (ATOC)
- Fellow, Renewable & Sustainable Energy Institute (RASEI)
- National Wind Technology Center, National Renewable Energy Laboratory (NREL)

Research Focus Areas:

- Boundary-layer meteorology
- Numerical weather prediction
- Large-eddy simulations
- Renewable energy applications
- Urban Meteorology
- Climatology



[Tobin Munsat](#)

- Associate Professor, Physics
- EPEN Faculty Advisor, Physics
- Director, Center for Integrated Plasma Studies (CIPS)
- Deputy Principal Investigator, Institute for Modeling Plasma, Atmosphere, & Cosmic Dust

Research Focus Areas:

- Hypervelocity micrometeoroid impact research
- Fluctuation measurements in plasmas
- Relationship of turbulent quantities to cross-field plasma transport
- Microphysics of dust impacts which drive the dusty plasma equilibria



[Valentin Martinez Pillet](#)

➤ Director, National Solar Observatory

Research Focus Areas:

- Solar magnetic field measurements, analysis, and related instrumentation

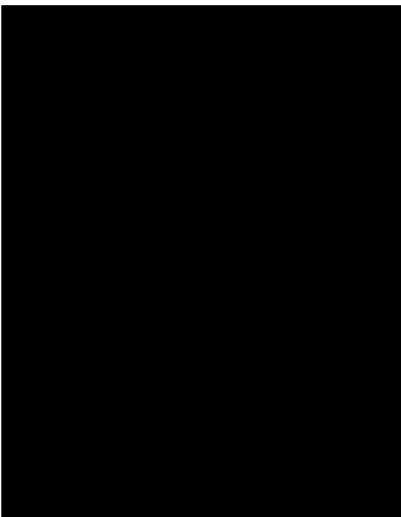


[Zoya Popovic](#)

➤ Professor, Electrical, Computer & Energy Engineering
➤ Microwave & RF Research Group

Research Focus Areas:

- Electromagnetics, RF and Microwaves
- High-efficiency microwave millimeter techniques
- Intelligent RF circuits and antenna arrays
- RF optics



[Dimitra Psychogiou](#)

➤ Assistant Professor, Electrical, Computer & Energy Engineering

Research Focus Areas:

- Electromagnetics, RF and Microwaves



[Sriram Sankaranarayanan](#)

➤ Assistant Professor, Computer Science

Research Focus Areas:

- Reachability and stability verification of hybrid dynamical systems
- Automatic approaches to falsification (counterexample generation)
- Correct-by-construction synthesis of control systems
- Probabilistic program analysis/verification
- Optimization and decision problems such as guaranteed nonlinear optimization and multilinear problems



[Hanspeter Schaub](#)

- Professor, Aerospace Engineering Sciences
- Associate Chair for Graduate Studies, Aerospace Engineering Sciences
- Colorado Center for Astrodynamics Research (CCAR)
- Autonomous Vehicle Systems (AVS) Lab

Research Focus Areas:

- Orbital mechanics
- Relative motion dynamics
- Attitude dynamics and control
- Nonlinear dynamics
- Charged astrodynamics



[Daniel Scheeres](#)

- Professor, Aerospace Engineering Sciences
- Colorado Center for Astrodynamics Research (CCAR)
- Celestial & Spaceflight Mechanics Laboratory

Research Focus Areas:

- Astrodynamics
- Satellite navigation, orbit determination and control
- Celestial mechanics
- Planetary science

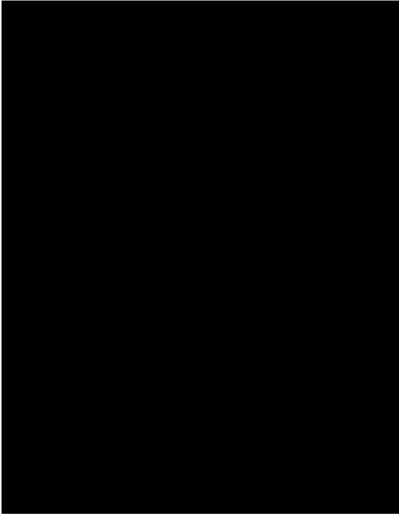


[Sebastian Schmidt](#)

- Associate Professor, Laboratory for Atmospheric & Space Physics (LASP)
- Associate Professor, Atmospheric & Oceanic Sciences (ATOC)

Research Focus Areas:

- Cloud, aerosol, trace gas shortwave passive remote sensing
- Radiative energy budget – measurements and modeling
- Instrument development for airborne spectrometry / irradiance measurements
- Field experiment development, flight planning, data acquisition and analysis
- Satellite validation through airborne measurements



[David Stone](#)

- Professional Research Assistant, Cooperative Institute for Research in Environmental Sciences (CIRES)

Research Focus Areas:

- Space weather



[Daniel Szafir](#)

- Assistant Professor, ATLAS Institute
- Assistant Professor, Computer Science
- Research & Engineering Center for Unmanned Vehicles (RECUV)

Research Focus Areas:

- Human-robot interaction
- Human-computer interaction
- Enhancing the assistive capabilities of small free-flying robots
- Leveraging novel sensing and intervention technologies to improve student learning in educational settings



[Jeffrey Thayer](#)

- Professor, Aerospace Engineering Sciences
- Associate Chair for Undergraduate Studies, Aerospace Engineering Sciences
- Professor, Atmospheric & Oceanic Sciences (ATOC)
- Director, Colorado Center for Astrodynamic Research (CCAR)

Research Focus Areas:

- Remote sensing of atmosphere & ionosphere using LIDAR and radar
 - Optical systems and design
 - Atmospheric and space physics
 - Geophysical fluid dynamics
 - Electrodynamics
 - Plasma physics
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[Kristy Tiampo](#)

- Professor, Geological Sciences
- Director of Earth Science & Observation Center, Cooperative Institute for Research in Environmental Sciences (CIRES)

Research Focus Areas:

- Fault systems dynamics and statistical seismology
 - Geodetic and remote sensing techniques
 - GPS data analysis
 - InSAR data analysis
 - Numerical and computation modeling
 - Nonlinear inversions and data assimilation
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[Colin Towery](#)

- Research Assistant, Turbulence & Energy Systems Laboratory (TESLa)
- 5th Year PhD Student, Department of Mechanical Engineering

Research Focus Areas:

- Turbulence physics
- Reacting flows and turbulent combustion
- Multi-scale, multi-physics interactions
- Computational fluid dynamics (CFD) modeling



[Douglas Weibel](#)

- Senior Research Professional, Integrated Remote & In Situ Sensing (IRISS)

Research Focus Areas:

- Making unmanned aircraft systems a valuable and easy to use tool for researchers in a wide variety of fields



[Luis Zea](#)

- Research Associate, Aerospace Engineering Sciences
- Bioastronautics Research Group

Research Focus Areas:

- Bioastronautics
- Gravitational microbiology
- Space life sciences
- Biological regenerative life support systems
- Small satellites
- CubeSats
- International cooperation for space exploration
- STEM outreach