

# WHAT QUALITIES MAKE A GREAT ADVISOR?

JOIN US TO DEBATE THE CRITICAL  
TOPIC OF ADVISING WITH THE  
FOLLOWING HIGHLY RATED ADVISERS\*:

\*RATED BY STUDENTS, ADMINISTRATORS, AND PEERS

Dr. Mercedes López-Morales, Center for  
Astrophysics | Harvard & Smithsonian

Dr. Emmanuel Rowe, Middle Tennessee State  
University

Dr. Corey Shemelya, University of Massachusetts  
Lowell

Co-hosted by: Ms. Rachel Nere (SAO/LIP Intern,  
Physics Major, University of Massachusetts  
Boston) and Ms. Christine Crowley, (PI, SAO/LIP  
and SAO Fellowship Coordinator)

**TUESDAY JULY 27 @ 12PM**  
**CFA-WIDE ZOOM LOCATION**

<https://smithsonian.zoom.us/j/82769222948?pwd=Mm56TUFXM25TWlItTHZaeHBkTzFnZz09>

THIS MATERIAL IS BASED UPON WORK SUPPORTED BY  
THE NATIONAL SCIENCE FOUNDATION UNDER GRANT  
NO. 1745460.

## SAO/NSF Latino Initiative Program (SAO/LIP) Summer Seminar presents

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### MERCEDES LÓPEZ-MORALES

Dr. López-Morales studied Physics at the University of La Laguna in the Canary Islands, Spain, and after working on public outreach for two years moved to University of North Carolina at Chapel Hill, USA to pursue a PhD in Astrophysics. Upon completing her Ph.D., she was a Carnegie Postdoctoral Fellow and a Hubble Fellow at the Carnegie Institution of Washington's Department of Terrestrial Magnetism in Washington D.C, before returning to Spain as a researcher at the Spanish National Research Council's Institute of Space Sciences in Barcelona. In 2012, she joined the Harvard-Smithsonian Center for Astrophysics as a staff astrophysicist. Her research focuses on the detection and characterization of exoplanet atmospheres as PI of the ACCESS project and on the detection of Earth-like planets around other stars as co-investigator of HARPS-North.



### EMMANUEL ROWE

Dr. Rowe is an Assistant professor of Mechatronics Engineering at Middle Tennessee State University. He earned his Ph.D. from Virginia Commonwealth University, a B.S. degree in Mathematics from Morehouse College, and B.S. degree in Electrical Engineering from North Carolina Agricultural and Technical State University as part of the dual degree program. Prior to attending graduate school, Dr. Rowe held the position of Process Engineer II at Cree Inc., where he worked on gallium nitride based blue and green Light Emitting Diode growth by Metal-Organic Chemical Vapor Deposition. His dissertation research focused on the growth and characterization of high-performance doped halides. Dr. Rowe also worked on the development of enriched lithium indium diselenide (LiSe™) as a high efficiency thermal neutron detector that yielded a R&D 100 Award. In 2014, Dr. Rowe joined the Material Science and Application Group in the Physics Department at Fisk University as a Fisk-Vanderbilt Bridge Postdoctoral Fellow. He then joined the group as a Research Assistant Professor in 2017 and now holds adjunct status at both Fisk and Vanderbilt University. Dr. Rowe joined Middle Tennessee State University as a tenure track faculty in 2019 where his research is focused on developing novel halide and oxide based bulk and ceramic scintillator materials for nuclear nonproliferation and medical use. Dr. Rowe teaches undergraduate courses in Electrical Power and Machinery, and Electrical Circuit Analysis. He has authored or co-authored over 20 publications with over 600 citations

### COREY SHEMELYA

Professor Corey Shemelya is a member of the Printed Electronics Research Collaborative (PERC) and the Raytheon UMass Lowell Research Institute (RURI) at the University of Massachusetts (UMass) Lowell. PERC/RURI is a research collaborative with 19+ industrial partners focused on increasing the commercial adoption of advanced manufactured devices. His research group is presently investigating novel designs, form factors, and material systems for advanced manufacturing techniques for electromagnetic radiation ranging from visible light to 5G RF frequencies. His body of work has amassed an h-index of 18 over 54 publications and 100 academic presentations ranging from additive RF to THz photonics and IR energy harvesting. Professor Shemelya began as a Louis Stokes Alliances for Minority Participation (LSAMP) program mentor in 2014 at the University of Texas at El Paso and has continued his work at UMass Lowell.

