

## Dr. Pamela M. Marcum (Science PI):

IAC

### Education

1994, University of Wisconsin, Ph.D., Astrophysics  
1989, Florida Institute of Technology, M.S., Space Science  
1989, Florida Institute of Technology, M.S., Physics  
1987, Florida Institute of Technology, B.S., Space Science

### Appointments

2016–present, research scientist, NASA Ames Research Center  
2020–2021, program officer (on detail), NASA HQ, Washington, D.C.  
2009–2016, SOFIA project scientist, NASA Ames Research Center  
2005–2008, program officer (IPA), NASA HQ, Washington, D.C.  
2003–2009, associate professor, Texas Christian University (Fort Worth, TX)  
1996–2002, assistant professor, Texas Christian University (Fort Worth, TX)  
1994–1996, postdoctoral fellow, University of Virginia

### Additional Awards, Positions, Fellowships and Proposals

2018–present, Roman Space Telescope Standing Review Board  
2023–2025, Chandra AR24610329: Exploring the Origin of Lenticular Galaxies

### Publications relevant for the proposal:

- Ossa-Fuentes, L., Borlaff, Beckman, J.E., Marcum, P.M. & Fanelli, M.N. 2023, "Flares, Warps, Truncations, and Satellite: The Ultra-thin Galaxy UGC 11859", *ApJ*, 951, 1490
- Borlaff, A.S., Lopez-Rodriguez, E., Beck, R., et.al. (inc. **Marcum, P.M.**), 2023, "Extragalactic magnetism with SOFIA (SALSA Legacy Program) V: First results on the magnetic field orientation of galaxies", *ApJ*, 952, 4
- Lopez-Rodriguez, E., Mao, S.A., Beck, R., et al. (inc. **Marcum, P.M.**), 2022, "Extragalactic magnetism with SOFIA (SALSA Legacy Program) IV: Program overview and first results on the polarization fraction", *ApJ*, 936, 92
- Lopez-Rodriguez, E., Clarke, M., Shenoy, S., et al. (inc. **Marcum, P.M.**), 2022, "Extragalactic magnetism with SOFIA (SALSA Legacy Program) III: First data release and on-the-fly polarization mapping characterization", *ApJ*, 936, 65
- Borlaff, A.S., Gómez-Alvarez, P., Altieri, B., **Marcum, P.M.**, et al, 2022, "Euclid preparation XVI: Exploring the ultra-low surface brightness Universe with Euclid/VIS", *A&A*, 657, 92
- Borlaff, A.S., Lopez-Rodriguez, E., Beck, R., et al. (inc. **Marcum, P.M.**), 2021, "Extragalactic Magnetism with SOFIA(Legacy Program) I: The magnetic Field in the Multiphase Interstellar Medium of M51", *ApJ*, 921, 128

## Dr. Pamela M. Marcum (Administrative PI):

NASA Ames

### Education

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1989, Florida Institute of Technology, M.S., Space Science

1989, Florida Institute of Technology, M.S., Physics

1987, Florida Institute of Technology, B.S., Space Science

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- Borlaff, A.S., Lopez-Rodriguez, E., Beck, R., et.al. (inc. **Marcum, P.M.**), 2023, "Extragalactic magnetism with SOFIA (SALSA Legacy Program) V: First results on the magnetic field orientation of galaxies", *ApJ*, 952, 4
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- Lopez-Rodriguez, E., Clarke, M., Shenoy, S., et al. (inc. **Marcum, P.M.**), 2022, "Extragalactic magnetism with SOFIA (SALSA Legacy Program) III: First data release and on-the-fly polarization mapping characterization", *ApJ*, 936, 65
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