

Paul Scowen, PhD

Personal Information

Name: Paul Andrew Scowen
 Date of Birth: June 11, 1966
 Citizenship: US Citizen
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Research Interests

- The interplay between massive stars and star formation in the surrounding environment. This interest extends both to detailed studies of the physics and dynamics of the gas and dust around regions of high mass star formation, as well as to the study of global effects (e.g. self propagating star formation) in other galaxies. The intent is to use the microphysics we have learned about in nearby star formation regions to tell us more about how larger systems propagate star formation and ultimately affect global modes.
- Space Mission Development with personnel at NASA Goddard and universities elsewhere. This development has included serving as design lead on the Ultraviolet Spectrograph for the Habitable Exoplanet Imaging Mission (HabEx) concept; and the instrument assembly and test engineer for the SPARCS Cubesat. Also lead new mission concept for a MIDEX mission (Polstar) as PI.
- Instrumentation Development for both ground-based and space-based applications. Lead role in the development of the UV Astrophysics program at NASA Goddard including managerial support of the instrument laboratory I maintain there. Oversight of NASA postdocs and graduate students (as appropriate) working on contract and thesis work in this lab.

Professional History

Current Position:

- Acting Lab Chief, Code 667, NASA Goddard Space Flight Center, April 2022 - present
- Senior Research Astrophysicist, Code 667, NASA Goddard Space Flight Center, June 2021 - present

Concurrent Responsibilities and Previous Positions:

- Full Research Professor, School of Earth & Space Exploration, Arizona State University, June 2017 – June 2021
- Payload Systems Engineer, SPARCS Cubesat Mission, Summer 2018 - present
- Principal Investigator, ANUBIS Probe-class Mission Concept Study, Summer 2018 – 2020
- Principal Investigator, Polstar Explorer-class Mission Proposal, January 2019 – present
- Instrument Science Lead – UVS Instrument, HabEx Mission Concept Study – 2016-2020
- Co-Chair, ASTRO-1 Requirements Team, BoldyGo Institute, 2015 – present
- Principal Investigator, HORUS Origins Science Mission Study, Summer 2005 – Summer 2020
- Principal Investigator, ORION Explorer Mission Proposal, February 2010 – February 2016
- Associate Research Professor, School of Earth & Space Exploration, Arizona State University, December 2008 – June 2017
- Principal Investigator, Star Formation Observatory / Camera (SFO/SFC) Concept Study, October 2007 - 2011
- Research Scientist, School of Earth & Space Exploration, Arizona State University, June 2007 – December 2008
- Research Professional, School of Earth & Space Exploration, Arizona State University, June 2006 – June 2007
- Principal Investigator, ASU Laboratory for Astronomical Space Instrumentation (LASI), School of Earth & Space Exploration, Arizona State University, December 2005 – June 2021
- Principal Investigator, Orion MIDEX Mission Proposal, Winter 2005 – 2009
- Project Scientist, HORUS Origins Science Mission Study, PI Jon Morse, Spring 2004 – Summer 2005
- Project Scientist, Orion MIDEX Mission Proposal, PI Jon Morse, Summer 2003 – Winter 2005
- Project Management & Software Development, Small Radio Telescope Project, Fall 2001 – Fall 2010
- Project Management & Software Development, ASU Braeside Observatory Upgrade and Remote Observing, Summer 2000 – Summer 2008
- Assistant Research Professional, Department of Physics & Astronomy, Arizona State University, July 1998 – June 2006
- Visiting Research Assistant Professor, Department of Physics & Astronomy, Arizona State University, August 1997 - June 1998
- Member NASA Astrophysics Data Program Review Panel, July 1997
- Associate Member of the Wide Field/Planetary Camera 2 Investigation Definition Team, June 1992 - December 1998
- Associate Member of the Wide Field and Planetary Camera Investigation Definition Team, June 1992 - December 1997
- Postdoctoral Research Associate, Department of Physics & Astronomy, Arizona State University, June 1992 - August 1997

Education

- Ph. D. (Astronomy), May 1993, Thesis: “*A study of the HII Region Populations of M101, M51 and NGC 4449*”, Rice University, Houston, Texas, USA., Advisor: Prof. Reginald J. Dufour
- M. S. (Astrophysics), May 1989, Thesis: “*A Calculation of the Mean Age of Interstellar Dust Particles*”, Rice University, Houston, Texas, USA., Advisor: Prof. Donald D. Clayton
- B. S. (Hons) (Physics with Astrophysics), July 1987, University of Birmingham, Birmingham, United Kingdom

Professional Memberships

- Full Member of the American Astronomical Society
- Senior Member of SPIE - The International Society for Optical Engineering
- Member of the International Astronomical Union

Teaching Experience

- Co-Instructor (with Mark Robinson), SES 405, “*Exploration Systems Engineering*”, ASU Spring 2021
- Instructor, AST 540, “*Observing Instrumentation and Data Analysis*”, ASU Fall 2020
- Co-Instructor (with Mark Robinson), SES 405, “*Exploration Systems Engineering*”, ASU Spring 2020
- Instructor, AST 111, “*Introduction to Solar System Astronomy*”, ASU Fall 2019
- Instructor, AST 394, “*Astrophysics Research Seminar*”, ASU Spring 2019
- Instructor, AST 540, “*Observing Instrumentation and Data Analysis*”, ASU Fall 2018
- Instructor, AST 394, “*Astrophysics Research Seminar*”, ASU Spring 2018
- Instructor, SES 330, “*Electronics Instrumentation*”, ASU Fall 2017
- Co-Instructor (with Mark Robinson), SES 405, “*Exploration Systems Engineering*”, ASU Spring 2017
- Instructor, AST 394, “*Astrophysics Research Seminar*”, ASU Spring 2017
- Instructor, SES 405, “*Exploration Systems Engineering*”, ASU Spring 2016
- Instructor, AST 394, “*Astrophysics Research Seminar*”, ASU Spring 2016
- Instructor, AST 598, “*Observing Instrumentation and Data Analysis*”, ASU Fall 2015
- Instructor, AST 394, “*Astrophysics Research Seminar*”, ASU Spring 2015
- Instructor, AST 114, “*Astronomy Lab II.*”, ASU Spring 2015
- Instructor, AST 113, “*Astronomy Lab I.*”, ASU Fall 2014
- Instructor, AST 394, “*Astrophysics Research Seminar*”, ASU Spring 2014
- Co-Instructor (with Mark Robinson), SES 405, “*Exploration Systems Engineering*”, ASU Spring 2014
- Co-Instructor (with Mark Robinson), SES 405, “*Exploration Systems Engineering*”, ASU Spring 2013
- Co-Instructor (with Mark Robinson), SES 405, “*Exploration Systems Engineering*”, ASU Spring 2012
- Guest Instructor (for Chris Groppi), SES 330, “*Practical Electronics and Instrumentation*”, ASU November & December 2011
- Instructor, AST 598, “*Observing Instrumentation and Data Analysis*”, ASU Fall 2011
- Instructor, AST 114, “*Astronomy Lab II.*”, School of Earth & Space Exploration, ASU Spring 2011
- Instructor, AST/GLG 598, “*Astronomical & Remote Sensing Instrumentation and Data Analysis*”, School of Earth & Space Exploration, ASU Spring 2009
- Instructor, AST/GLG 598, “*Astronomical Instrumentation and Data Analysis*”, School of Earth & Space Exploration, ASU Fall 2006
- Guest Instructor, PHY 334, “*Advanced Laboratory I.*”, Dept. of Physics & Astronomy, ASU Spring 2006
- Guest Instructor, PHY 334, “*Advanced Laboratory I.*”, Dept. of Physics & Astronomy, ASU Spring 2005
- Guest Instructor, AST 111, “*Introductory Astronomy I.*”, Dept. of Physics & Astronomy, ASU Fall 2004
- Guest Instructor, AST 111, “*Introductory Astronomy I.*”, Dept. of Physics & Astronomy, ASU Spring 2004
- Guest Instructor, PHY 334, “*Advanced Laboratory I.*”, Dept. of Physics & Astronomy, ASU Spring 2004
- Instructor, AST 114, “*Astronomy Lab II*”, Dept. of Physics & Astronomy, ASU Spring 2001
- Instructor, AST 113, “*Astronomy Lab I*”, Dept. of Physics & Astronomy, ASU Fall 2000
- Instructor, AST 114, “*Astronomy Lab II*”, Dept. of Physics & Astronomy, ASU Spring 2000
- Instructor, AST 113, “*Astronomy Lab I*”, Dept. of Physics & Astronomy, ASU Fall 1997
- Instructor, AST 500, “*Astronomical Observing and Data Analysis*”, Dept. of Physics & Astronomy, ASU Fall 1995

Invited Talks and Presentations

- “Opportunities in Astrophysics Enabled by the Ultraviolet”, Caltech IPAC, March 31, 2021
- “ANUBIS – A Probe-Class UVO Space Observatory”, Meeting of the Panel on Electromagnetic Observations in Space-1, National Academies of Science, Decadal Survey on Astronomy and Astrophysics, January 27, 2020
- “Recent Developments in Next-Generation UV-Visible Space Telescope Planning and Design”, SPIE Optics and Photonics: UV/Optical/IR Space Telescopes and Instruments: Innovative Technologies and Concepts VIII, San Diego, CA, August 6-7, 2017

- “Future Possibilities for FUV Astronomy from Space: the HabEx UVS instrument and the ANUBIS probe mission concept”, Ultraviolet Sky Surveys Workshop, Tel Aviv University, Tel Aviv, Israel, July 10-14, 2017
- “NASA Missions – the Next Generation Flagships”, Developing the ngVLA Science Program Workshop, Socorro, NM, June 27, 2017
- “HORUS – the High Orbit Ultraviolet-Visible Satellite”, Colloquium, SOFIA Science Center, NASA Ames, May 25, 2016
- “Hubble at 25: Looking Beyond the Eagle at Star and Planet Formation”, Keynote Address, APS Four Corners Meeting, ASU, October 16, 2015
- “Initial Prospects for UV-visible Astrophysics Science with a 4m-class Observatory”, ExoPAG 12 Workshop, Chicago, IL, June 14, 2015
- “Celebrating 25 Years of the Hubble Space Telescope”, Plenary Lecture, Hubble 25th Anniversary Event, SESE-ASU, April 24, 2015
- “Celebrating 25 Years of the Hubble Space Telescope”, Dean Lecture, California Academy of Sciences, April 6, 2015
- “Hubble Goes High Def to Revisit the Iconic ‘Pillars of Creation’”, Press Release, AAS Meeting, Seattle, WA, January 5, 2015
- “Review and Explanation of Amateur Astronomical Images”, Saguaro Astronomy Club, ASU, April 11, 2014
- “A Look Into the Universe”, Discussion Panelist, SEDS SpaceVision Conference 2013, ASU, Nov 7-10, 2013
- “The High ORbit Ultraviolet-visible Satellite, HORUS”, NASA SALSO Workshop, Marshall Space Flight Center, Huntsville, AL, Feb 5-6, 2013
- “Galaxy Assembly and SMBH/AGN Growth”, COPAG RFI Submission Meeting, Space Telescope Science Inst., Baltimore, MD, Sep 18-19, 2012
- “The Magellanic Clouds Survey”, COPAG RFI Submission Meeting, Space Telescope Science Inst., Baltimore, MD, Sep 18-19, 2012
- “Understanding Global Galactic Star Formation”, COPAG RFI Submission Meeting, Space Telescope Science Inst., Baltimore, MD, Sep 18-19, 2012
- “HORUS: a mature 2.4m UVO Origins Probe Design for the NRO-2 Telescope”, NEW Telescope Meeting, Princeton University, NJ, Sep 4-6, 2012
- “Moving Towards High Resolution Wide Field Imaging From Space”, West Valley Society of Retired Engineers, Sun City West, AZ, May 4, 2012
- “UV Spectroscopy/Imaging and Science Questions”, Review Talk, Invited for the Keck Institute for Space Studies Workshop on “*Next Generation UV Instrument Technologies Enabling Missions in Astrophysics, Cosmology and Planetary Sciences*”, Caltech, Aug 29 – Sep 2 & Dec 1-2, 2011
- “Interferometric Imaging”, guest lecture to LOFAR graduate student group, Evan Scannapieco, SESE, February 2011, 2012, 2013
- “Moving Towards Widefield High Resolution Imaging From Space”, Rice University, February 2011
- “Development of Custom Detectors for Widefield Surveys”, NOAO ReSTAR Workshop, Tucson AZ, November 2010

Postdoctoral Scholars Supervised

- Dr. Karen Knierman, NSF Postdoc – 2015 - 2018

Graduate Student Committees

- Angelica Berner – co-chair
- Logan Jensen – co-chair
- Johnathan Gamaunt – co-chair
- Kirk Bennett – co-chair
- **Dr. Genady Pilyavsky** – graduated 2019
- **Dr. Sam Gordon** – graduated 2019
- **Dr. Jessica Noviello** – graduated 2019
- **Dr. Alex Miller** – co-chair – graduated 2019
- **Dr. Jackie Monkiewicz** – graduated 2019
- **Dr. Teresa Ashcraft** – graduated 2018
- **Dr. Thomas Mozdzen** – graduated 2017
- **Dr. Caleb Wheeler** – graduated 2017
- **Dr. Abhijith Rajan** – graduated 2017
- **Dr. Julie Stopar** – graduated 2016
- **Dr. Matt Mechtley** – graduated 2013
- **Dr. Karen Knierman** – co-chair (with Chris Groppi) – graduated 2013
- **Dr. Todd Veach** – co-chair (with Chris Groppi) - graduated 2012
- **Dr. Emily McLinden** – graduated 2012
- **Dr. Catherine Kaleida** – co-chair (with Rogier Windhorst) - graduated 2011
- **Dr. Allison Loll** – co-chair (with Steve Desch) - graduated 2010

Undergraduate Students Supervised

- Priya Challa – Senior Thesis Project, “*Focal Plane Actuation using Hexapods*”, 2013-14
- Michael Falcon – Senior Thesis Project, “*Star Formation Efficiency in M101*”, 2013-14
- Scott Gompert – Senior Thesis Project, “*Argumentation in Introductory Astronomy Lab: An Action Research Project*”, 2014-15

- Ravi Prathipati – Barrett Honors College , NASA Space Grant Fellow, 2015-16
- Ronnie Ramirez – Barrett Honors College, 2015-18
- Connor Companik – Barrett Honors College, Senior Thesis, “*The Potential Use for Strong Gravitational Lensing in the Detection of Dark Matter*”, 2017-2018
- Emily Apel – Barrett Honors College, NASA Space Grant Fellow, 2017-2019
- Nathanael Mains – Senior Thesis Project “*Star Formation Efficiency Analysis of the Galaxy NGC 4826*” & NASA Space Grant Fellow, 2017-2019
- Zoe Horvath – Barrett Honors College, NASA Space Grant Fellow, 2020-2021

Center / University / School / Academic Community Service

- Astrophysics Line of Business Committee, Code 660, NASA Goddard Space Flight Center, January 2022 - present
- Graduate Oversight Committee, SESE, May 2019 – June 2021
- Universities Space Research Association (USRA), Nominating Committee, April 2019 – June 2021
- Astronomy Faculty Search Committee, SESE, October 2018 – March 2019
- Graduate Student Committee, SESE, August 2018 – June 2021
- Universities Space Research Association (USRA), Council of Institutions, ASU Representative, February 2018 – June 2021
- Aerospace Engineering Faculty Search Committee, Member, representing SESE, November 2017 – February 2018
- Instrument Design and Fabrication Core Facility Governance Board, CLAS, ASU, Appointed Member, March 2017 – June 2021
- NASA Advisory Council – Astrophysics Advisory Committee, Appointed Member, March 2017 – April 2019
- Small Satellites Faculty Search Committee, Member, SESE, August 2016 – April 2017
- Co-Chair, Graduate Oversight Committee, SESE, August 2016 – April 2017
- School Representative, ASU College of Liberal Arts & Science Special Research Committee, 2016 – June 2021
- NASA Habitable Exoplanet Imager Mission (HabEx) Science and Technology Definition Team, Appointed Member, February 2016 – December 2019
- Nominated for Outstanding Instructor Award, College of Liberal Arts & Sciences, Arizona State University, February 2016
- NASA Cosmic Origins Program Analysis Group, Chair, November 2015 – April 2019
- NASA Advisory Council – Astrophysics Subcommittee, Appointed Member, July 2015 – March 2017
- Referee for the Journal of Astronomical Telescopes, Instruments, and Systems, 2015 - present
- Nominated for Outstanding Instructor Award, College of Liberal Arts & Sciences, Arizona State University, February 2015
- Chair, Science Interest Group on the Future of UV-Visible Astronomy from Space, NASA COPAG / NAC Astrophysics Subcommittee, Nov 2014 – February 2018
- Graduate Oversight Subcommittee, SESE, 2014 - 2017
- Nominated for Outstanding Instructor Award, College of Liberal Arts & Sciences, Arizona State University, March 2014
- NASA Postdoctoral Program, Reviewer, April & August 2013
- Systems Engineering Faculty Search Committee, SESE, Spring 2013
- CASIS Materials Science Review Panel for the ISS, Member, February 2013
- Arizona NASA Space Grant Steering Committee, Member, 2012 – June 2021
- NSF Astrophysics Review Panel, Member, March 26-27, 2012
- Obama Mentor, ASU, Chris Cazares, 2011 - 2012
- Executive Committee Member, Cosmic Origins Program Analysis Group, NASA, Fall 2011 – Fall 2014
- Faculty Advisor, ASU Astronomy Club (AstroDevils), 2011 – 2019
- Undergraduate Oversight Subcommittee, Chair, SESE, 2011 - 2014
- ASU Representative, Dark Sky Stakeholder Group, Maricopa Association of Governance, 2011 - 2012
- Systems Engineering Faculty Search Committee, SESE, Spring 2011
- Exoplanet Faculty Search Committee, SESE, Spring 2011
- Cosmology Observer Faculty Search Committee, SESE, Spring 2011
- Obama Mentor, ASU, Erika Fuentes, 2010-2011
- Chair, Ad-Hoc Committee on Engineering BS Degree within SESE, 2009 – 2012
- Obama Mentor, ASU, Ervin Blanton, 2009-2010
- University of Arizona Observatories, Telescope Allocation Committee, ASU representative, 2009 – 2012
- EH&S Compliance Officer, LASI Lab, SESE, 2009 – June 2021
- Member, University Hearing Board, 2007 – 2015
- Referee for Astronomy and Astrophysics, 1999 - present
- Referee for Astrophysical Journal Letters, 1998 - present
- Referee for Nature, 1997 - present
- Referee for the Astronomical Journal, 1996 - present
- Referee for Publications of the Astronomical Society of the Pacific, 1993 – present
- Referee for the Journal of Astronomical Telescopes, Instruments, and Systems, 2015 - present

Funding Awards

- Monitoring the High-Energy Radiation Environment of Exoplanets around Low-mass Stars with SPARCS (Star-Planet Activity Research CubeSat), NASA, \$5,011,569, 1/1/2018-12/31/2021
- SWARMS, JPL SURP, \$30,000, 10/16/2017-09/30/2020
- Building a Better ALD - use of Plasma Enhanced ALD to Construct Efficient Interference Filters for the FUV, NASA/COR/SAT, \$795,899, 1/1/2016-12/31/2018
- Lunar Polar Hydrogen Mapper, NASA/SIMPLEX, \$5.2M, 10/1/2015-9/30/2020
- Rocket Flight of a Delta-Doped CCD Focal Plane Array to Prove Flight Rating, NASA/STMD/GCOTD, \$87,221, 11/4/2013 – 11/4/2014
- Focal Plane Actuation to Achieve Ultra-High Resolution on Suborbital Balloon Payloads, NASA/STMD/GCOTD, \$249,999, 11/4/2013 – 11/4/2014
- High Efficiency Detectors For Photon Counting And Large FPA Applications, JPL/SAT, \$170,119, 9/1/2012 – 8/31/2015
- Ultraviolet Coatings, Materials, And Processes For Advanced Telescope Optics, JPL/SAT, \$74,950, 10/1/2012 – 9/30/2015
- Partnering for the Future: ASU and JPL Training the Next Generation of Explorers, JPL, \$17,500, 5/1/2012 – 4/30/2013
- Development of a high efficiency dichroic beamsplitter for the entire optical/NUV band, JPL, \$24,000, 5/1/2012 – 4/30/2013
- Gemini GHOS Contract, Univ. Of Colorado – Boulder, \$45,118, 11/10/2011 - 5/10/2012
- Stellar Clustering And Associated Disruption Times In Nearby Galaxies, Space Telescope Science Inst., \$105,633, 9/1/2010 - 8/31/2013
- Development Of A Prototype Modular Imaging Cell (MIC), JPL, \$89,148, 1/1/2010 - 12/31/2010
- Innovative Multiband Filters, NSF, \$130,751, 7/1/2010 - 6/30/2013

Refereed Publications

- Shultz, M. E. ; Casini, R. ; Cheung, M. C. M. ; David-Uraz, A. ; del Pino Alemán, T. ; Erba, C. ; Folsom, C. P. ; Gayley, K. ; Ignace, R. ; Keszthelyi, Z. ; Kochukhov, O. ; Nazé, Y. ; Neiner, C. ; Oksala, M. ; Petit, V. ; **Scowen, P. A.** ; Sudnik, N. ; ud-Doula, A. ; Vink, J. S. ; Wade, G. A., “*Ultraviolet Spectropolarimetry With Polstar: Using Polstar to test Magnetospheric Mass-loss Quenching*”, <https://arxiv.org/abs/2207.12970>, 2022
- St-Louis, Nicole ; Gayley, Kenneth ; Hillier, D. John ; Ignace, Richard ; Jones, Carol E. ; David-Uraz, Alexandre ; Richardson, Noel D. ; Vink, Jorick S. ; Peters, Geraldine J. ; Hoffman, Jennifer L. ; Yael ; Nazé ; Stevance, Heloise ; Shenar, Tomer ; Fullard, Andrew G. ; Lomax, Jaimie R. ; **Scowen, Paul A.**, “*UV Spectropolarimetry with Polstar: Massive Star Binary Colliding Winds*”, <https://arxiv.org/abs/2207.07163>, 2022
- Ramiaramanantsoa, Tahina ; Bowman, Judd D. ; Shkolnik, Evgenya L. ; Loyd, Robert Oliver Parke ; Ardila, David R. ; Barman, Travis ; Basset, Christophe ; Beasley, Matthew ; Cheng, Samuel ; Gamaunt, Johnathan ; Gorjian, Varoujan ; Jacobs, Daniel ; Jensen, Logan ; Jewell, April ; Knapp, Mary ; Llama, Joe ; Meadows, Victoria ; Nikzad, Shouleh ; Peacock, Sarah ; **Scowen, Paul** ; Swain, Mark R., “*Time-resolved photometry of the high-energy radiation of M dwarfs with the Star-Planet Activity Research Cubesat*”, *Astronomische Nachrichten*, **343**, Issue 4, article id. e10068, 2022
- Ramiaramanantsoa, Tahina ; Bowman, Judd D. ; Shkolnik, Evgenya L. ; Loyd, R. O. Parke ; Ardila, David R. ; Jewell, April ; Barman, Travis ; Basset, Christophe ; Beasley, Matthew ; Cheng, Samuel ; Gamaunt, Johnathan ; Gorjian, Varoujan ; Hennessy, John ; Jacobs, Daniel ; Jensen, Logan ; Knapp, Mary ; Llama, Joe ; Meadows, Victoria ; Nikzad, Shouleh ; Peacock, Sarah ; **Scowen, Paul** ; Swain, Mark R., “*Onboard dynamic image exposure control for the Star-Planet Activity Research CubeSat (SPARCS)*”, *MNRAS*, 509, Issue 4, pp.5702-5712, 2022
- Peters, Geraldine J. ; Gayley, Ken ; Ignace, Richard ; Jones, Carol E. ; Naze, Yael ; St-Louis, Nicole ; Stevance, Heloise ; Vink, Jorick S. ; Richardson, Noel D. ; Hoffman, Jennifer L. ; Lomax, Jamie R. ; Shenar, Tomer ; Fullard, Andrew G. ; **Scowen, Paul A.**, “*Ultraviolet Spectropolarimetry with Polstar: Conservative and Nonconservative Mass Transfer in OB Interacting Binaries*”, <https://arxiv.org/abs/2111.14047>, 2021
- Gayley, Ken ; Vink, Jorick S. ; ud-Doula, Asif ; David-Uraz, Alexandre ; Ignace, Richard ; Prinja, Raman ; St-Louis, Nicole ; Ekström, Sylvia ; Nazé, Yaël ; Shenar, Tomer ; **Scowen, Paul A.** ; Sudnik, Natallia ; Owocki, Stan P. ; Sundqvist, Jon O. ; Driessen, Florian A. ; Hennicker, Levin, “*Ultraviolet Spectropolarimetry with Polstar: Clumping and Mass-loss Rate Corrections*”, <https://arxiv.org/abs/2111.11633>, 2021
- St-Louis, Nicole ; Gayley, Kenneth ; Hillier, Desmond John ; Ignace, Richard ; Jones, Carol E. ; David-Uraz, Alexandre ; Richardson, Noel D. ; Vink, Jorick S. ; Peters, Geraldine J. ; Hoffman, Jennifer L. ; Naze, Yael ; Stevance, Heloise ; Shenar, Tomer ; Fullard, Andrew G. ; Lomax, Jamie R. ; **Scowen, Paul A.**, “*Ultraviolet Spectropolarimetry with Polstar: Massive Star Binary Colliding Winds*”, <https://arxiv.org/abs/2111.11552>, 2021
- Andersson, B-G ; Clayton, Geoffrey C. ; Doney, Kirstin D. ; Hoang, Thiem ; Magalhaes, Antonio Mario ; Panopoulou, Georgia V. ; Yan, Huirong ; **Scowen, Paul A.**, “*Ultraviolet Spectropolarimetry with Polstar: Interstellar Medium Science*”, <https://arxiv.org/abs/2111.08079>, 2021
- Jones, C. E. ; Labadie-Bartz, J. ; Nazé, Y. ; Peters, G. J. ; Cotton, D. V. ; Hillier, D. J. ; Neiner, C. ; Richardson, N. D. ; Hoffman, J. L. ; Carciofi, A. C. ; Wisniewski, J. P. ; Gayley, K. G. ; **Scowen, P. A.** ; Suffak, M. W. ; Ignace, R., “*Ultraviolet Spectropolarimetry with Polstar: on the origin of rapidly rotating B stars*”, <https://arxiv.org/abs/2111.07926>, 2021
- Wisniewski, John P. ; Berdyugin, Andrei V. ; Berdyugina, Svetlana V. ; Danchi, William C. ; Dong, Ruobing ; Oudmaijer, Rene D. ; Airapetian, Vladimir S. ; Brittain, Sean D. ; Gayley, Ken ; Ignace, Richard ; Langlois, Maud ; Lawson, Kellen D. ; Lomax, Jamie R. ; Tamura, Motohide ; Vink, Jorick S. ; **Scowen, Paul A.**, “*UV Spectropolarimetry with Polstar: Protoplanetary Disks*”,

<https://arxiv.org/abs/2111.06891>, 2021

120. Shultz, M. E. ; Casini, R. ; Cheung, M. C. M. ; David-Uraz, A. ; del Pino Alemán, T. ; Erba, C. ; Folsom, C. P. ; Gayley, K. ; Ignace, R. ; Keszthelyi, Z. ; Kochukhov, O. ; Nazé, Y. ; Neiner, C. ; Oksala, M. ; Petit, V. ; **Scowen, P. A.** ; Sudnik, N. ; ud-Doula, A. ; Vink, J. S. ; Wade, G. A., “*Ultraviolet Spectropolarimetry With Polstar: Hot Star Magnetospheres*”, <https://arxiv.org/abs/2111.06434>, 2021
119. Gilbertson, Matthew ; Woodruff, R. A. ; Ruiz, Alyssa ; Sullivan, Mark ; Vasudevan, Gopal ; Lorell, Ken ; Reyes, Ariana ; Doney, Kirstin ; Sokolsky, Larry ; Hull, Tony ; **Scowen, Paul** ; Nordt, Alison, “*Design drivers for the PolStar telescope and UV spectropolarimeter instrument*”, Proceedings of the SPIE, **11820**, 118200G, 2021
118. Jensen, Logan ; Gamaunt, Johnathan ; **Scowen, Paul** ; Austin, Jim ; Beasley, Matthew ; Shkolnik, Evgenya, “*Development of a thermal vacuum chamber, performance tests plan, and contamination control procedures for the Star-Planet Activity Research CubeSat (SPARCS)*”, Proceedings of the SPIE, **11820**, 118200D, 2021
117. Gamaunt, Johnathan ; Jensen, Logan ; **Scowen, Paul** ; Austin, Jim ; Ardilla, David ; Shkolnik, Evgenya, “*Star-Planet Activity Research CubeSat (SPARCS) test tank thermal methods*”, Proceedings of the SPIE, **11819**, 118190M, 2021
116. **Scowen, Paul A.** ; Gayley, Ken ; Neiner, Coralie ; Vasudevan, Gopal ; Woodruff, Robert ; Ignace, Richard ; Casini, Roberto ; Hull, Tony ; Nordt, Alison ; Stahl, H. Philip, “*The Polstar High Resolution Spectropolarimetry MIDEX Mission*”, Proceedings of the SPIE, **11819**, 1181908, 2021
115. Armus, L. ; Megeath, S. T. ; Corrales, L. ; Marengo, M. ; Kirkpatrick, A. ; Smith, J. D. ; Meyer, M. ; Gezari, S. ; Kraft, R. P. ; McCandliss, S. ; Tuttle, S. ; Elvis, M. ; Bentz, M. ; Binder, B. ; Civano, F. ; Dragomir, D. ; Espaillat, C. ; Finkelstein, S. ; Fox, D. B. ; Greenhouse, M. Hamden, E. ; Kauffmann, J. ; Khullar, G. ; Lazio, J. ; Lee, J. ; Lillie, C. ; Lightsey, P. ; Mushotzky, R. ; Scarlata, C. ; **Scowen, P.** ; Tremblay, G. R. ; Wang, Q. D. ; Wolk, S., “*Great Observatories: The Past and Future of Panchromatic Astrophysics*”, https://ui.adsabs.harvard.edu/link_gateway/2021arXiv210400023A/arxiv:2104.00023, 2021
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