Evan Scannapieco **July 5, 2025**

Arizona State University
School of Earth and Space Exploration
Tempe, AZ 85287-1404

Phone: (510) 260-4326
Email: evan.scannapieco@asu.edu
URL: http://scannapieco.asu.edu

Education

1996-2001	MS & PhD	University of California, Berkeley
1992-1996	A.B., *magna cum laude*	Harvard University

Academic / Federal Appointments

2007-present	Professor	Arizona State University
2018-2022	Program Manager	NASA Headquarters
2003-2007	Postdoctoral Member	University of California, Santa Barbara
2001-2003	NSF Postdoctoral Fellow	Paris Institute of Astrophysics

Publication Summary

- 145 refereed publications spanning computation astrophysics and fluid dynamics.
- 8691 Citations, h-index of 53 (https://scholar.google.com/citations?user=JqlSG1gAAAAJ&hl=en)

Administrative Appointments in Advanced Research Computing

2020-2022 **Astrophysics Program Manager for NASA Artificial Intelligence / Machine Learning (AI/ML) Task Force**
NASA Science Mission Directorate

- Led NASA-wide initiative to advance AI/ML enabled research, assessing the needs and capabilities of all five NASA science divisions.
- Organized a community-wide workshop with more than 150 researchers to discuss AI/ML priorities, which resulted in over $10M in strategic investments.
- Advised NASA leadership on how to better support AI/ML research to improve mission data analysis.

2019-2022 **Astrophysics Lead of NASA High-End Computing Allocation Board**
NASA Science Mission Directorate

- Directed HPC time and storage allocations for over 200 grants and missions,
- Worked with NASA centers and universities to optimize resource utilization,
- Developed a strategic plan for future HPC investments at Ames Research Center, aligning infrastructure with evolving computational demands.

2018-2022 **Program Manager for the Theoretical and Computational Astrophysics Networks (TCAN) and Astrophysics Theory (ATP) Programs**
NASA Science Mission Directorate

- Managed a $16M annual budget, representing 50% of all U.S. federal funding for computational astrophysics.

- Oversaw multiple peer reviews with over 150 panelists each, spanning all areas of computational and theoretical astrophysics.
- Streamlined cross-agency collaboration with the National Science Foundation.
- Advised NASA leadership and National Academy committees on program achievements and goals, resulting a recommended 50% increase in funding.

2009-2017 **Governance Board for Research Computing**
Arizona State University

- Guided university-wide investments in HPC staffing and infrastructure, prioritizing departmental needs and interdisciplinary collaboration.
- Delivered regular presentations to departments and executive leadership to maintain faculty engagement and continued financial support.

2011-2014 **Chair, SESE Computing Committee**
Arizona State University

- Led decisions on data storage and computing infrastructure for over 300 faculty, postdocs, and students in astrophysics, planetary science, and Earth science.
- Served as primary liaison between academic departments and university-wide computing initiatives.

Other Administrative Appointments Since 2020

2018-Present **Science Advances Associate Editor**
American Association for the Advancement of Science

- Oversee editorial decisions for high-impact research spanning astrophysics, fluid dynamics, and heliophysics, evaluating over 100 submissions annually.
- Collaborate with a multidisciplinary group of scientific editors to improve peer review and maximize journal impact.

2023-2025 **Habitable Worlds Observatory (HWO) Science, Technology, Architecture Review Team Member (START)**
NASA Science Mission Directorate

- Co-led the mentoring working group, designing partnerships with universities and professional organization to strengthen the pipeline of future HWO users
- Advised NASA on equitable resource allocation for this multi-billion dollar flagship mission, designed to support the entire US astrophysics community,
- Defined HWO science cases in galaxy evolution and the circumgalactic medium, including support through next-generation HPC simulations.

2021-2024 **SESE Associate Director**
Arizona State University

- Executed a multi-year plan to improve undergraduate enrollment and retention across astrophysics, planetary science, Earth science, and systems engineering.
- Implemented a Code of Conduct and yearly individual development plans, improving graduate student mentoring.
- Launched ASU's Heising-Simons 51 Pegasi Fellowship.

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2021-2022 **Astrophysics Research and Analysis Program Deputy Program Manager**
NASA Science Mission Directorate

- Directed $100M/year in research investments spanning computational and observational astrophysics, laboratory studies, and mission-enabling technology.
- Aligned funding priorities with the National Academy of Science's Decadal Survey, prioritizing high-impact computational and data-intensive projects.
- Streamlined peer review processes, reducing biases and administrative overhead.

2020-2022 **Project Scientist for NASA Neil Gehrels Swift Observatory**
NASA Science Mission Directorate

- Managed NASA's premier rapid-response space telescope for studying gamma-ray bursts, gravitational wave counterparts, and variable stars.
- Administered Swift science operations, including the guest investigator program and ensuring Swift remained one of NASA's top-ranked astrophysics missions.
- Maximized mission success by aligning project execution with the Astrophysics Division's scientific goals and budget.

Awards & Fellowships

2021 **NASA HQ Honor Award**
Awarded for advancing restructuring the Astrophysics Research Program to remove barriers to the participation of underrepresented groups.

2019 **NASA HQ Honor Award**
Awarded for executing the computational and theoretical astrophysics program on schedule and meeting all metrics following the government shutdown.

2019 **Dr. Manuel Servín Faculty Award**
Awarded for exemplifying achievement in research, leadership, community service, and mentorship of Hispanic students.

2007 **Ontario Research and Innovation Optical Network (ORION), Discovery Award of Merit**
Awarded for conducting the largest cosmological simulation containing gas ever carried out.

2006 **Aspen Center for Physics, Martin & Beate Block Award**
Awarded to the most promising young physicist attending a Winter Conference at the Aspen Center for Physics

2001 **NSF-Distinguished International Postdoctoral Research Fellowship**
Awarded to carry out a research program on interactions between galaxies and the intergalactic medium at the Arcetri Observatory in Italy and the Institute for Astrophysics in Paris.

2001 **UC Berkeley, Elizabeth Uhl Award**
Awarded for outstanding scholarly achievement by a graduate student close to finishing their dissertation in Astronomy or Physics.

Grants

A total of $4.9M in research funding awarded as PI or co-PI/co-Investigator

2025-2026 **Team-Up Together EXCEL: Advancing the Next Generation of African American Earth and Space Physicists**
Awarded Amount: $190,000 (100% Credit)

2024-2027 **NASA Astrophysics Decadal Survey Precursor Science: Robustly Modeling the Evolution of Galactic Winds in Realistic Large-scale Simulations**
Awarded Amount: $744,409 (100% Credit)

2023-2025 **NASA XRISM Guest Scientist Program: Disentangling the Phases of the M82 Outflow with Nonequilibrium Simulations**
Awarded Amount: $124,365 (100% Credit)

2023-2025 **Space Telescope Science Institute: A Systematic Search for Wind-CGM Interactions in Star-forming Galaxies**
Awarded Amount: $651,525 (25% Credit)

2022-2025 **NASA Theory: Simulating the Rise and Fall of the First Stellar Generation During the Epoch of Reionization**
Awarded Amount: $424,084 (100% Credit)

2017-2021 **NSF-AAG: Following the Turbulent Enrichment of the High-Redshift Universe**
Awarded Amount: $503,163 (100% Credit)

2017-2020 **NASA Theory: Developing Multiphase Galaxy Formation Simulations**
Awarded Amount: $472,397 (20% Credit)

2015-2019 **NASA Theory: Developing the Next Generation of Tools for Simulating Galaxy Outflows**
Awarded Amount: $497,228 (100% Credit)

2015-2018 **NSF-IRES: Measuring Cosmic Magnetism with the Low Frequency Radio Array**
Awarded Amount: $248,212 (100% Credit)

2014-2017 **NSF-AAG: Using the Sunyaev-Zel'dovich Effect to Measure AGN Feedback**
Awarded Amount: $498,199 (100% Credit)

2011-2014 **NSF-AAG: Simulating Galaxy Formation with Fewer than a Trillion Zones**
Awarded Amount: $486,798 (100% Credit)

2011-2014 **NASA Theory: Simulating Colliding and Merging White Dwarfs**
Awarded Amount: $366,000 (50% Credit)

2010-2013 **NASA Earth and Space Science Fellowship: White Dwarf Collisions as a Unique Pathway for Supernovae**
Awarded Amount: $90,000 (100% Credit)

2010-2014 **NSF-IRES: Studying Galactic and Intergalactic Magnetism with LOFAR**
Awarded Amount: $149,408 (100% Credit)

2010-2012 **NASA Theory: Modeling the Self-Enrichment of Primordial and Present-day Star Clusters**
Awarded Amount: $474,437 (50% Credit)

2008-2011 **NSF-AAG: Constraining Double Degenerate Mergers**
Awarded Amount: $501,260 (50% Credit)

Conference and Workshops Organization Since 2019

2025 **The 7th Joint Japan Aerospace Exploration Agency (JAXA)-NASA X-Ray Imaging and Spectroscopy Mission (XRISM) Team Meeting**
Arizona State University, Tempe, AZ
Local Organizing Committee Chair

2023 **Understanding the Structure of the Circumgalactic Medium Conference**
Arizona State University, Tempe, AZ
Science & Local Organizing Committee Co-Chair

2021 **NASA Science Mission Directorate AI Workshop**
Virtual Conference
Science Organizing Committee Co-Chair

2021 **Eighth Annual Giant Magellan Telescope Community Science Meeting: Black Holes at All Scales**
Sedona, AZ
Science Organizing Committee Member

2019 **Turbulent Life of Cosmic Baryons Workshop**
Aspen Center for Physics, Aspen, CO
Science Organizing Committee Co-Chair

2019 **Joint Institute for Nuclear Astrophysics Workshop on R-process Sources in the Universe**
Arizona State University, Tempe, AZ
Science Organizing Committee Co-Chair

2019 **Seventh Annual GMT Community Science Meeting: The Cosmic Baryon Cycle: Gas and Galaxies**
Catalina Island, CA
Science Organizing Committee Member

Courses Taught

MAT 591 **High-Performance Computation for Space and Environmental Flows**
Interdisciplinary course in High-performance numerical simulations in astrophysics, atmospheric science, and geophysics.

AST 111 **Introduction to Solar System Astronomy**
Introduction to our modern understanding of the Sun, Solar System, and astronomical tools and concepts used to study them.

AST 112 **Introduction to Stars, Galaxies, and Cosmology**
Introductory survey of stars, galaxies, and cosmology, emphasizing accessibility and scientific discovery.

AST 301 **Physics of Astrophysics**
Online introduction to key astrophysical concepts, including electromagnetism, gravity, interactions between light and matter, and nuclear processes.

AST 421 **Astrophysics I**
Advanced physics survey to prepare undergraduates for careers in astrophysics: classical mechanics, gravity, relativity, electrodynamics, and plasma physics.

AST 422 **Astrophysics II**
Advanced physics survey to prepare undergraduates for careers in astrophysics: quantum mechanics, thermodynamics, and nuclear physics.

AST 521 **Radiative Processes in Astrophysics**
Graduate course on radiative transfer, stellar atmospheres, synchrotron radiation, and scattering.

AST 531 **Extragalactic Astrophysics**
Graduate exploration of galaxy structure, dynamics, black holes, and Milky Way evolution.

SES 598 **Introduction to Radio Astronomy**
Graduate introduction to radio emission principles, telescopes, and interferometry.

Selected Lectures, Colloquia, and Conference Presentations Since 2020

7/2025 **Simulating the Impact of Black Holes on Cosmic Structure Formation**
18th Potsdam Thinkshop, Potsdam, Germany

6/2025 **Simulating the Impact of Black Holes on Cosmic Structure Formation**
Aix-Marseille University, Marseille, France

5/2025 **Numerically Modeling of Cold Gas in Galactic Outflows**
Contents of the Fermi Bubbles and Related Topics, Green Bank, WV

11/2024 **Astrophysics at Arizona State University**
Conference on US-Mexico Cooperation in Astronomy, Mexico City, Mexico

08/2024 **Modeling Turbulence in the Circumgalactic Medium**
Toward a Holistic Understanding of the Circumgalactic Medium Workshop, Aspen Center for Physics, Aspen, CO

06/2024 **The Evolution of Turbulent Fluctuations**
Intracluster Medium Theory & Computation Workshop, Ann Arbor, MI

06/2024 **Mentoring for Habitable Worlds Observatory**
3rd Habitable Worlds Observatory Face-to-Face Meeting, Baltimore, MD

03/2024 **Turbulence and the Evolution of the Multiphase Circumgalactic Medium**
Turbulence in the Universe, KITP, Santa Barbara, CA

03/2024 **Mentoring for Habitable Worlds Observatory**

2nd Habitable Worlds Observatory Face-to-Face Meeting, Pasadena, CA

09/2023 **What Governs the Density Evolution of Turbulent Media?**
MIST2023: Cosmic turbulence and Magnetic fields, Cargèse, France

03/2023 **Constraining Feedback and Dust at z >1**
The Cosmic Web: Connecting Galaxies to Cosmology, KITP, Santa Barbara, CA

12/2022 **Disentangling the M82 Outflow with Nonequilibrium Simulations**
XRISM Core-to-Core Multiwavelength Workshop, Tsukuba, Japan

11/2022 **Why Did the Most Massive Galaxies Stop Forming Stars?**
SESE Colloquium, ASU, Tempe, AZ

10/2022 **Data-Driven Modeling**
Understanding NASA SMD Needs for Data and Computing, Greenbelt, MD

10/2022 **Simulating the Invisible Halo Around Galaxies**
SESE New Discoveries Lecture, ASU, Tempe, AZ

09/2022 **Simulating the Structure of the Cicumgalactic Medium**
What Matter(s) Around Galaxies Conference, Chompoluc, Italy

08/2022 **Simulating he Thermal History of Groups and Clusters**
6th ICM Theory and Computation Workshop, Copenhagen, Denmark

04/2022 **Why Did the Most Massive Galaxies Stop Forming Stars?**
Astrophysics Colloquium, Hamburg University, Germany

03/2022 **Why Did the Most Massive Galaxies Stop Forming Stars?**
Physics and Astronomy Colloquium, University of Southern California

11/2021 **NASA Fellowship and Funding Opportunities in Astrophysics**
SACNAS National Diversity in STEM (NDiSTEM) Digital Conference

01/2021 **NASA Fellowship and Funding Opportunities in Astrophysics**
American Astronomical Society, Virtual Conference

11/2020 **NASA Fellowship and Funding Opportunities in Astrophysics**
National Society of Black Physicists, Virtual Conference

02/2020 **Astrophysical Computation and Theory at NASA**
Astro 2020 Decadal Review, National Academy of Sciences, Washington, DC

Postdoctoral Advisees

		Current Position
Chris Cain	2023-pres	Beus Fellow, Arizona State University
Mohammad Safarzadeh	2016-2019	Senior Research Scientist, Oracle
Sharanya Sur	2012-2015	Assoc. Prof., Indian Institute of Astrophysics
Liubin Pan	2009-2012	Assoc. Professor, Sun Yat-Sen University
Themis Athanassiadou	2009-2012	Support Engineer, Atlassian

Graduate Advisees

		Current Position
Maliyah Adams	1st year Master's Student	
Skylar Grayson	5th year PhD Student	
Edward Buie II	PhD in 2022	Asst. Professor at Vassar College

J'Neil Cottle	PhD in 2021	Data Scientist at Cascade Data Labs
Richard Sarmento	PhD in 2018	System Architect at IRIDIUM
Alexander Spacek	PhD in 2017	Postdoc at Los Alamos National Laboratory
Mark Richardson	PhD in 2014	Education and Outreach Officer, Queens Univ.
William Gray	PhD in 2012	Scientist at 3M Corporation
Cody Raskin	PhD in 2011	Staff Scientist at Lawrence Livermore Nat. Lab

Departmental and College Service Since 2020

2007-pres	Physics Department Graduate Faculty
2024-2025	César E. Chávez Leadership Institute
2022-2024	Member, SESE Promotion and Tenure Committee
2023	Member, ASU Presidential Postdoctoral Fellowship Committee
2018-2020	Member, Laura Rendón Scholarship Committee
2017-2018	Member, Committee to Establish the ASU Online Bachelor of Science Degree in Astronomical and Planetary Sciences
2016-2018	Member, SESE Promotion and Tenure Committee
2015-2018	Chair, SESE Awards Committee
2010-2018	PI and Lead, LOFAR International Research Experience for Students Program
2014-2015	Member, SESE Undergraduate Curriculum Committee
2010-2011	Member, SESE Articulation Task Force
2008-2011	Member, SESE Graduate Recruitment Committee
2008-2009	Member, Committee to Establish the ASU In-Person Bachelor of Science Degree in Earth and Space Exploration
2007-2009	Interdisciplinary Science and Technology Building IV Planning Committee

National and International Service Since

2013-pres	Reviewer for Nature
1997-pres	Reviewer for The Astrophysical Journal
1997-pres	Reviewer for Monthly Notices of the Royal Astronomical Society
1997-pres	Reviewer for Physical Review D
2025	Panelist, NSF, Astronomy and Astrophysics Grants Program
2023	Panelist, Hubble Space Telescope Time Allocation Committee
2018	Panelist, NSF International Research Experience for Students (IRES)
2016-2018	National Science Bowl Question Reviewer
2003-2018	External Reviewer, US-Israeli Binational Science Foundation
2016	Panel Chair, NASA Theory Grant Panel
2016	Grand Award Judge, Intel International Science and Engineering Fair
2016	Panelist, NSF Astronomy and Astrophysics Grants Program
2015	Panelist, NSF International Research Experience for Students (IRES) Program
2014	Panelist, NSF Mid-Scale Innovations Program (MSIP) Panelist
2014	External Reviewer, UK Royal Society University Research Fellowships
2013	Panelist, NSF, Astronomy and Astrophysics Grants Program
2012	Panel Chair, NASA Theory Grant Panel
2011-2017	External Reviewer, Korean Ministry of Ed., Sci., & Tech. Grants
2011	Panelist, NSF Astronomy and Astrophysics Grants Program
2009-2012	Judge, Student Cluster High-Performance Computation Competition
2010	Panelist, NSF Astronomy and Astrophysics Grants Program
2009	Panel Chair, NSF Astronomy and Astrophysics Grants Program
2008-2012	External Reviewer, Dutch National Vidi Research Incentives

2008	Panel Chair, NSF Astronomy and Astrophysics Grants Program
2007	Panelist, NSF Astronomy and Astrophysics Grants Program
2005	Panelist, NSF Astronomy and Astrophysics Grants Program

Professional Memberships

1998-pres	Member, American Astronomical Society
2024-pres	Member, American Association for the Advancement of Science
2016-pres	Member, ASU Chicano/Latino Faculty & Staff Association

List of Refereed Publications

(underline indicates undergraduate or PhD student and *italics* indicate postdoc working under my supervision)

[149] The Hot Circumgalactic Medium in Stacked X-rays: Observations vs Simulations
S. Grayson, **E. Scannapieco**, J. Comparat, J. ZuHone, Y. Zhang, S. Shreeram, M. Brüggen, E. Bulbul 2025, *Astrophysical Journal, (ApJ)* submitted (arXiv:2506.09123*)*

[148] Ion Densities of Cold Clouds Driven by Galactic Outflows
L. Yang, N. Katz, & **E. Scannapieco** 2025, *Monthly Notices of the Royal Astronomical Society (MNRAS),* submitted (arXiv:2501.09083)

[147] Cross-correlating the Patchy Screening and Kinetic Sunyaev-Zel'dovich Effects as a New Probe of Reionization
D. M. Kramer, A. van Engelen, *C. Cain*, N. MacCrann, H. Trac, S. Grayson, **E. Scannapieco,** & B. Sherwin 2025, *ApJ,* submitted (arXiv:2501.07623)

[146] Kiloparsec-scale Turbulence Driven by Reionization May Grow Intergalactic Magnetic Fields
C. Cain, **E. Scannapieco**, M. McQuinn, A. D'Aloisio, & H. Trac, 2025, *Phys Rev. Letters,* submitted

[145] Dynamics of Multiphase Carbon in the Turbulent Circumgalactic Medium
Y. Hu, **E. Scannapieco,** E. Buie II, S. Xu, S. Sebastian, O. Biswal 2025, *(ApJ*), *in press* (arXiv:2506.17554)

[144] The Importance of the Population III Initial Mass Function in Determining the Characteristics of the Earliest Galaxies
R. Sarmento & **E. Scannapieco** 2025, *ApJ, in press* (arXiv:2506.20767)

[143] Integrated Extragalactic Light from Stacking 10^5 Random Pointings in the Dark Energy Survey Data
J. E. Moore, S. H. Cohen, P. Mauskopf, & **E. Scannapieco** 2025, *ApJ,* in press (arXiv: 2506.08162)

[142] The Density Distribution of Compressively-Forced, Supersonic Turbulence Depends on the Driving Correlation Time
P. Grete, **E. Scannapieco**, M. Brüggen, & L. Pan 2025, *ApJ*, 987, 122

[141] Magnetically-assisted Vorticity Production in Decaying Acoustic Turbulence
A. Brandenburg & **E. Scannapieco** 2025, *ApJ,* 983, 105, pp. 12

[140] Understanding Density Fluctuations in Supersonic, Isothermal Turbulence
E. Scannapieco, L. Pan E. Buie II, & M. Brüggen, 2024, *Science Advances,* 10, 44, id eado3958, pp.14

[139] The imprint of magnetic fields on absorption spectra from circumgalactic wind-cloud Systems
B. Casavecchia, W. E. Banda-Barragán, M. Brüggen, F. E. Brighenti, & **E. Scannapieco** 2024, *Astronomy & Astrophysics*, Volume 689, 127, pp. 26

[138] The Hydrodynamic Response of Small-scale Structure to Reionization Drives Large IGM Temperature Fluctuations that Persist to z = 4

C. Cain, **E. Scannapieco**, M. McQuinn, A. D'Aloisio, & H. Trac, 2024, *MNRAS.* 533, L100, pp. 7

[137] Distinguishing Active Galactic Nuclei Feedback Models with the Thermal Sunyaev-Zel'dovich Effect
S. Grayson, **E. Scannapieco**, & R. Davé, 2023, *Astrophysical Journal ApJ,* 957, 17, pp. 12

[136] Constraining Circumgalactic Turbulence with QSO Absorption Line Measurements
B. Koplitz, E. Buie II, & **E. Scannapieco**, 2023, *ApJ,* 956, 54, pp. 12

[135] Evidence of Extended Dust and Feedback around z ≈ 1 Quiescent Galaxies via Millimeter Observations
J. Meinke, S. Cohen, J. Moore, K. Böckmann, P. Mauskopf, & **E. Scannapiec**o, 2023, *ApJ*, 954, 119, pp. 21

[134] The Launching of Cold Clouds by Galaxy Outflows. V. The Role of Anisotropic Thermal Conduction
M. Brüggen, **E. Scannapieco**, & P. Grete, 2023, *ApJ,* 951, 113, pp. 14

[133] The Effects of Radiative Feedback and Supernova-induced Turbulence on Early Galaxies
R. Sarmento & **E. Scannapieco**, 2022, *ApJ*, 935, 174, pp. 10

[132] Modeling Photoionized Turbulent Material in the Circumgalactic Medium. III. Effects of Corotation and Magnetic Fields
E. Buie II, **E. Scannapieco**, & G. Mark Voit, 2022, *ApJ* l, 927, 30, pp. 16

[131] A New Model for Including Galactic Winds in Simulations of Galaxy Formation II: Implementation of PhEW in cosmological simulations
S. Huang, N. Katz, J. Cottle, **E. Scannapieco**, R. Davé, & D. H. Weinberg 2022, *MNRAS,* 509, 609, pp. 23

[130] The Thermal Sunyaev-Zel'dovich Effect from Massive, Quiescent 0.5 ≤ z ≤ 1.5 Galaxies
J., K. Böckmann, S. Cohen, P. Mauskopf, **E. Scannapieco**, R. Sarmento,
E. Lunde, & J. Cottle, *ApJ,* 913, 88, pp. 23

[129] Shock--multicloud interactions in galactic outflows - II. Radiative fractal clouds and cold gas thermodynamics
W. Banda-Barragán, M, Brüggen, V. Heesen, **E. Scannapieco**, J. Cottle, C. Federrath, & A. Y. Wagner 2020, *Monthly Notices of the Royal Astronomical Society,* 506, 5658, pp. 20

[128] The Launching of Cold Clouds by Galaxy Outflows IV: Cosmic-Ray-Driven Acceleration
M. Brüggen & **E. Scannapieco** 2020, *ApJ*, 905, 18, pp. 14

[127] Shock--multicloud interactions in galactic outflows - I. Cloud layers with log-normal density distributions
W. Banda-Barragán, M, Brüggen, C. Federrath, A. Y. Wagner, **E. Scannapieco**, & J. Cottle 2020, *MNRAS,* 499, 2173, pp. 23

[126] Limits to Rest-Frame Ultraviolet Emission from Far-Infrared-Luminous z > 6 Quasar Hosts
M. Marshall, M. Mechtley, R. A. Windhorst, S. H. Cohen, R. A. Jansen, V. R. Jones, J. S. B. Wyithe,, X. Fan, N. P. Hathi, K. Jahnke, L. Jiang, W. C. Keel, A. M. Koekemoer, V. Marian, J. Robinson, H. Röttgering, R. E. Ryan, Jr., **E. Scannapieco**, D. P. Schneider, G. Schneider, B. M. Smith, M. A. Strauss, & H. Yan 2020, *ApJ*, 900, 21, pp. 22

[125] A New Model for Including Galactic Winds in Simulations of Galaxy Formation I: Introducing the Physically Evolved Winds (PhEW) Model
S. Huang, N. Katz, **E. Scannapieco**, J. Cottle, R. Davé, D. H. Weinberg, J. A. Kollmeier, & M. S. Peeples 2020, *MNRAS,* 498, 2586, pp. 21

[124] Modeling Photoionized Turbulent Material in the Circumgalactic Medium II: Effect of Turbulence within a Stratified Medium
E. Buie, **E. Scannapieco**, W. J. Gray, & *M. Safarzadeh* 2020, *ApJ,* 893, 136, pp. 24

[123] The Launching of Cold Clouds by Galaxy Outflows III: The Influence of Magnetic Fields
J. Cottle, **E. Scannapieco**, M. Brüggen, W, Banda-Barragán, & C. Federrath, 2020, *ApJ*, 892, 59, pp. 15

[122] Modeling Observations of Absorption Lines in the Circumgalactic Medium with a Turbulent Medium
E. Buie, M. Fumagalli, & **E. Scannapieco** 2020, *ApJ,* 890, 33 pp. 19

[121] Magnetic helicity dissipation and production in an ideal MHD code
A. Brandenburg, **& E. Scannapieco** 2020, *ApJ*, 889, 55, pp. 9

[120] Catastrophic Cooling in Galaxy Outflows: Line Emission and Nonequilibrium Ionization
W. J. Gray, M. S. Oey, S. Silich, & **E. Scannapieco** 2019, *ApJ*, 887, 161, pp. 17

[119] Warped diffusive radio halo around the quiescent spiral edge-on galaxy NGC 4565
V. Heesen, L. Whitler, P. Schmidt, A. Miskolczi, S. S. Sridhar, R. Beck, G. Gurkan, **E. Scannapieco**, & M. Bruggen 2019*, A&A,* 628, 3, pp. 9

[118] Measuring the Delay Time Distribution of Binary Neutron Stars II: Using the Redshift Distribution from Third-Generation Gravitational Wave Detectors
M. Safarzadeh, E. Berger, K.-Y. Ng, H.-Y. Chen, S. Vitale, C. Whittle, **E. Scannapieco** 2019, *ApJ,* 878, 13, pp. 9

[117] On Neutron Star Mergers as the Source of r-process Enhanced Metal-Poor Stars in the Milky Way
M. Safarzadeh, R. Sarmento, & **E. Scannapieco** 2019, *ApJ,* 876, 28, pp. 10c

[116] Non-equilibrium Ionization States within Galaxy Outflows: Explaining Their OVI and NV Columns Densities
W. J. Gray, **E. Scannapieco**, & M. D. Lehnert 2019, *ApJ*, 875, 110, pp. 12

[115] r-process Enrichment of Ultra-Faint Dwarf Galaxies by Fast Merging Double Neutron Stars
M. Safarzadeh, E. Ramirez-Ruiz, J. J. Andrews, P. Macias, T. Fragos, & **E Scannapieco**, 2019 *ApJ,* 872, 105, pp. 9

[114] Hot X-ray Atmospheres, Molecular Gas, and AGN Feedback in Early Type Galaxies: A Topical Perspective
N. Werner, B. R. McNamara, E. Churazov, & **E. Scannapieco,** 2019, *Space Science Reviews,* 215, 5, pp. 48

[113] Astrophysics with the Spatially and Spectrally Resolved Sunyaev-Zeldovich Effects: A Millimetre/Submillimetre Probe of the Warm and Hot Universe
T. Mroczkowski, D. Nagai, K. Basu, J. Chluba, J. Sayers, R. Adam, E. Churazov, A. Crites, L. Di Mascolo, D. Eckert, J. Macias-Perez, F. Mayet, L. Perotto, E. Pointecouteau, C. Romero, F. Ruppin, **E. Scannapieco**, J. ZuHone 2019, *Space Science Reviews,* 215, 17, pp. 60

[112] Following the Cosmic Evolution of Pristine Gas III: The Observational Consequences of the Unknown Properties of Population III Stars
R.Sarmento, **E Scannapieco**, and B. Côté 2019, *ApJ,* 871, 206, pp. 18

[111] Calibrating the low-frequency radio–SFR relation in nearby galaxies at 1-kpc scale with LOFAR
V. Heesen, E. Buie II, CJ Huff, L. A. Perez, J. G. Woolsey, D. A. Rafferty, A. Basu, R. Beck, E. Brinks, C. Horellou, **E. Scannapieco**, M. Brüggen, R.-J. Dettmar, K. Sendlinger, B. Nikiel-Wroczynski, K. T. Chyzy, P. N. Best, G.H. Heald, & R. Paladino, 2019 *A&A*, 662, 8, pp. 23

[110] Using Real and Simulated Measurements of the Thermal Sunyaev-Zel'dovich Effect to Constrain Models of AGN Feedback
A. Spacek, M. Richardson, **E. Scannapieco,** J. Devriendt, Y. Dubois, S. Peirani, & C. Pichon 2018, *ApJ*, 865, 109, pp. 12

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