

DR. LILI ALDERSON

lili-alderson.com — lili.alderson@cornell.edu — ORCID: [0000-0001-8703-7751](https://orcid.org/0000-0001-8703-7751)

PROFESSIONAL APPOINTMENTS

Klarman Postdoctoral Fellow

Cornell University, USA, \$285,728 (~£210,000)

Oct 2024 – Present

Department of Astronomy

Research Associate

University of Bristol, UK

Apr 2024 – Jun 2024

School of Physics

EDUCATION

PhD in Physics

University of Bristol, UK

Sep 2020 – May 2024

- Supervisor: Dr. Hannah Wakeford
- Thesis Title: From Hot Jupiters to Super-Earths: An Exploration of Exoplanet Atmospheres with Space-Based Telescopes
- Bristol Prize for Outstanding Excellence in a Doctoral Dissertation in Faculty of Science
- RAS Michael Penston Thesis Prize Runner-up

MPhys Astrophysics with a Year Abroad

University of Southampton, UK & Center for Astrophysics | Harvard-Smithsonian, USA *First Class*

Sep 2016 – Jul 2020

- Dissertation Title: LRG-BEASTS: Ground-based Transmission Spectroscopy of the Atmosphere of the Highly Inflated Hot-Saturn WASP-21b
- One of the 5 top academically performing students and selected to spend year in research at the Center for Astrophysics | Harvard-Smithsonian, in Cambridge, MA, USA
- Selected as one of the 12 best academically performing students for the Design and Observation in Astronomy module, involving a week observing at Teide Observatory, Tenerife, Spain

GRANTS & AWARDS

- **PI** on 2 Competitively Awarded JWST GO Programs, 60.5 Total Hours, Total funding ~\$333,000:
 - *Meeting their Match: Measuring Cloudy Hot Jupiter Counterparts to Understand the Silicate Cloud Regime with JWST/MIRI* – GO-7849 – \$281,199 total, \$68,283 at Cornell to support graduate students, travel and publications
 - *Not Your Normal Neptune: Exploring the Chemical Processes at Play in HAT-P-11b* – GO-4105 – \$52,389 total, \$22,549 at Cornell to support graduate student, travel and publications
- **Co-I** on 13 Competitively Awarded JWST GO Programs, 771 Total Hours: GO-10674, GO-11962, GO-12237, GO-8309, GO-8004, GO-5959, GO-5844, GO-5311, GO-3969, GO-3838, GO-3154, GO-2667, GO-2512
- **Co-I** on 4 Competitively Awarded HST GO Programs, 193 Total Orbits: JWST-GO-12237, GO-17613, GO-17418, GO-17183, GO-16695
- **2024 Member of NASA ExoExplorers Program** – Competitively Selected, \$1,000
- **2024 RAS Michael Penston Thesis Prize Runner-up**
- **2023/2024 Outstanding Excellence in a Doctoral Dissertation**, Faculty of Science, Uni. of Bristol
- **2023 OWL Exoplanet Summer Program** – fully funded attendance
- **2022 RAS Travel Grant** – £1000 to attend Exoplanets IV in Las Vegas, NV, USA
- **2021 2nd Place, Best Student Contribution Presentation**, UKRI STFC Introductory Course in Astronomy for New Research Students, Armagh Observatory and Planetarium
- **2020 Most Outstanding Performance on an MPhys Degree**, School of Physics and Astronomy, University of Southampton
- **2020 Best Project by a Year Abroad / Final Year Research Finalist** School of Physics and Astronomy, University of Southampton

- **2019 Faculty Academic Rep Award**, University of Southampton Student Union Academic Awards

TEACHING, LEADERSHIP & OUTREACH

- **Supervision & Mentoring** Jun 2023 – Present
 - **2nd/3rd Year Graduate Student**, Skylar Larsen – *Cornell University* Apr 2025 – Present
 - Fitting TESS data of exoplanet transits in support of JWST GO-4105, to contribute to Alderson et al., in prep
 - **3rd Year Undergraduate Student**, Giselle Gutierrez – *Cornell University* Sep 2025 – Present
 - Research for Credit project, fitting atmospheric models to search for population trends in planets aligned vs misaligned orbits, publishing as Ahrer et al., in prep
 - **High School Project Student**, Jude Young – *University of Bristol* Jun 2023 – Sep 2023
 - Developing codes to fit ATMO grid of atmospheric models
- **Professional Development**
 - **Associate Fellow of Advance HE** 2023 – Present
 - **Postgraduate Researchers Who Teach Program** – *University of Bristol* 2023
- **Undergraduate Teaching** Sep 2020 – Present
 - **ASTRO 2212 The Solar System** – *Cornell University* Spring 2025
 - Guest Lecturer** - Year 1/2 Non-Astronomy/Physics Majors ~ 40 students
 - Taught required content and with examples of current research, created in-class worksheet based on lecture to count towards attendance mark
 - **PHYS 10600 Stars & Planets** – *University of Bristol* Autumn 2022
 - Guest Lecturer** - Year 1, ~ 90 students
 - Designed lecture to complement module syllabus, created online quiz based on lecture to count towards total assessed grade
 - **PHYS 10600 Stars & Planets** – *University of Bristol* 2020–2024
 - Teaching Assistant** - Year 1, 30hrs in person per semester, ~ 90 students
 - Responsibilities: Lead workshop sessions dealing with astronomy data and conceptual understanding, including introducing material, providing feedback on previous work, and supporting students working in small groups; mark 50% of assessed grade in the form of end of workshop hand-ins
 - **PHYS 24010 Cosmology** – *University of Bristol* 2022–2025
 - Teaching Assistant** - Year 2, ~ 120 students
 - Responsibilities: Mark 66% of assessed grade in the form of problem sheets with mathematical and short essay questions
 - **PHYS 34013 Stellar Structure & Evolution** – *University of Bristol* Autumn 2024
 - Teaching Assistant** - Year 3, 6hrs in person per semester, ~ 40 students
 - Responsibilities: Support module lead during problem classes
- **Member of the Astrobites Collaboration** Jan 2021 – Sep 2024
 - Astrobites.org*
 - *Astrobites produces daily summaries of recent astrophysical literature and topics “beyond” research, aimed at undergraduates. The collaboration is entirely run by graduate students, and has been active since 2010.*
 - **Co-Chair of Collaboration**, 2023-2024
 - **Regular writer and editor**, 2021-2023
 - **Other collaboration roles include:** Co-Chair & Member of Administrative Committee, Chair & Member of Scheduling Committee, Member of DEI Committee, Ombudsperson
 - Author of 17 articles, editor of 27. 11 articles selected by AAS Nova for feature. ([View Full Summary](#))

Student Ambassador

Jul 2019

University of Southampton

- Subject talks to audiences of up to 400 prospective students and parents
- Building tours to groups of up to 20 visitors

Student President of the School of Physics and Astronomy

Jun 2018 – Jul 2019

University of Southampton

- Elected by peers to oversee student-staff relations, managing a team of 12 course representatives
- Ran quarterly Staff-Student Liaison Committee meetings to address and resolve raised issues
- Weekly meetings with the Director of Programs of the school

Science Communication Highlights

- **May 2025** Cornell Chronicle Article - [“Cornell astronomers win time on James Webb Space Telescope”](#)
- **Mar 2025** Cornell Friends of Astronomy Society - Invited Speaker
- **Feb 2025** Cornell Astronomical Society - Invited Speaker
- **Dec 2023** FIRST Tech Challenge UK Southwest Scrimmage - Invited Speaker
- **Dec 2023** Bournemouth School for Girls Inaugural Community Lecture - Invited Speaker
- **Jun 2023** Chaos Physfest - Invited Speaker
- **May 2023** Pint of Science Bristol - Invited Speaker
- **Nov 2022** [Light From Distant Worlds Film](#)
- **Sep 2022** Filton Avenue Primary School, Bristol, Space Week Talk
- **Jul 2021** [Aerospace Bristol Museum Talk](#)

PROFESSIONAL ACTIVITIES & SERVICES

- 2025-Present **Conception, Organiser & Co-Chair**, [Signal in the Noise Workshop](#), Ringberg, DE
- 2025-Present **LOC Member**, [UK Exoplanet Community Meeting](#), University of Bristol, UK
- 2024-Present **Co-Investigator** [KRONOS](#) (JWST GO-5959)
- 2023-Present **Associate Fellow of Advance HE**
- 2023-Present **Co-Investigator** [BOWIE-ALIGN Survey](#) (JWST GO-3838)
- 2022-Present **Member** of [BOWIE Collaboration](#)
- 2022-Present **Co-Investigator** [HUSTLE Collaboration](#) (HST GO-17183)
- 2021-Present Transmission Working Group **Member** [Transiting Exoplanet Community ERS Program](#)
- 2021-Present Project Level Transiting Exoplanet **Member** [JWST GTO Telescope Scientist Team](#)
- 2021-Present **Co-Investigator** [COMPASS Collaboration](#) (JWST GO-2512)
- 2020-Present **Member** [STARGATE Collaboration](#)
- 2025 **Co-Organiser** of Cornell University ExoCoffee
- 2024 **Member of NASA ExoExplorers Program**, Competitively Selected
- 2023-2024 **Co-Chair** of Astrobites Administrative Committee
- 2022-2024 **Co-Organiser** of University of Bristol (Exo)Planetary Journal Club
- 2022 **Session Organiser** at National Astronomy Meeting, Warwick
- 2022-2024 **Member** of Astrobites Admin Committee
- 2022-2023 **Chair** of Astrobites Scheduling Committee
- 2022-2023 **Ombudsperson** for Astrobites
- 2021-2024 **Member** of Astrobites Scheduling Committee
- 2021-2023 **Member** of Astrobites Diversity, Equity and Inclusion Committee
- 2020-2022 **Astrophysics Postgraduate Student Representative**, University of Bristol
- **Journals Refereed:** AAS Journals, MNRAS, RASTI

CONFERENCES & PROFESSIONAL TALKS

Summary

- **Total Conference Presentations:** 3 invited talks [1 (2026), 1 (2023), 1 (2022)]; 8 contributed talks [1 (2025), 1 (2024), 3 (2023), 1 (2022), 2 (2021)]; 8 posters [1(2024), 3 (2022), 2 (2021), 2 (2020)]
- **Total Invited Talks & Seminars:** 17 [3 (2026), 1 (2025), 2 (2024), 6 (2023), 4 (2022), 2 (2020)]
- **Total Public Talks:** 9 [2 (2025), 4 (2023), 2 (2022), 1 (2021)]

Invited Conference Talks

- **Apr 2026** – UK Exoplanet Meeting, University of Bristol, UK – “*Not Your Normal Neptune: Uncovering the Atmosphere and Stellar Environment of HAT-P-11b*”
- **Jan 2023** – 241st AAS Meeting, Seattle Washington, Seattle, WA, USA – “*JWST Transiting Exoplanet Early Release Science: A Transmission Spectrum of WASP-39b with NIRSpec G395H*” (Invited but unable to attend, talk given by co-author)
- **Nov 2022** – Celebrating JWST’s first six months of exoplanet data, Ringberg Castle, Germany – “*WASP-39b Through the Eyes of JWST NIRSpec G395H*”

Contributed Conference Talks

- **Jul 2025** – Exoclimates VII, Université de Montréal, Canada – “*Uncovering the Carbon Chemistry of the Exo-Neptune HAT-P-11b*”
- **Apr 2024** – UK Exoplanet Community Meeting, University of Birmingham, UK – “*Atmospheres Across the Radius Valley – First Results from the JWST COMPASS Program*”
- **Jul 2023** – 44th Bay Area Exoplanet Meeting, University of California: Santa Cruz, CA, USA – “*Compositions of Mini-Planets for Atmospheric Statistical Study (COMPASS): Program Overview & First Lessons Learned*” (talk given with program PI)
- **Jul 2023** – OWL Exoplanet Summer Program, University of California: Santa Cruz, CA, USA – “*Transiting Exoplanets with NIRSpec: Life After ERS*”
- **Mar 2023** – JWST Exoplanet Atmospheres Meeting, University of Oxford, UK – “*Bridging the Gap Between Small and Large Exoplanet Atmospheres with JWST NIRSpec*”
- **Jul 2022** – UK National Astronomy Meeting (NAM), University of Warwick, UK – “*Revisiting a Classic: Comprehensive Reanalysis of the Transmission Spectrum of the Hot Jupiter WASP-17b*”
- **Apr 2021** – UK Exoplanet Community Meeting (UKEXOM), University of Birmingham, UK (Online) – “*LRG-BEASTS: Sodium in the Atmosphere of the Hot-Saturn WASP-21b*”
- **Jan 2021** – UKRI STFC Introductory Course in Astronomy for New Research Students, Armagh Observatory and Planetarium, UK (Online) – “*Measuring the Atmosphere of WASP-21b*”

Seminars and Colloquia

- **Mar 2026** – Coffee Talk, University of Edinburgh, UK – “*WASP-17b Transmission Strings: Spatially Mapping the Atmospheric Limb of a Hot Jupiter*”
- **Mar 2026** – Astronomy Seminar, University of Birmingham, UK – “*Exo-Neptunes with JWST*”
- **Mar 2026** – Astronomy Seminar, University of Southampton, UK – “*Exo-Neptunes with JWST*”
- **Nov 2025** – ExoCoffee, MPIA Max Plank Institute for Astronomy, Germany – “*JWST Observations of the Warm Neptune HAT-P-26b*”
- **Jun 2024** – ExoCoffee, MPIA Max Plank Institute for Astronomy (Online), Germany – “*JWST COMPASS: NIRSpec/G395H Transmission Observations of the Super-Earth TOI-836b*”
- **Mar 2024** – ExoExplorer Science Series (Online) – “*Observing Atmospheres Across the Radius Valley*”
- **Dec 2023** – Astrophysics Seminar, University of Bristol, UK – “*Transiting Exoplanets: The Eras Tour – The Past, Present and Future of Atmospheric Observations*”
- **Oct 2023** – Stars, Planets, and ISM Seminar, The University of Texas at Austin (Online), TX, USA (Online) – “*Triumphs and Challenges in Exoplanet Atmospheres: The First Year of JWST Observations*”

- **Jun 2023** – Astronomy Seminar, Carnegie Earth & Planets Laboratory, D.C., USA (Online) – “*Into the IR: Exploring Exoplanet Atmospheres with Hubble and JWST*”
- **Apr 2023** – Department of Earth and Space Sciences Seminar, Columbus State University, GA, USA – “*Alien Sunsets: Exploring the Atmospheres of Exoplanets with Space Telescopes*”
- **Mar 2023** – Exoplanet Seminar, NASA Goddard, MD, USA – “*Into the IR: Exploring Exoplanet Atmospheres with Hubble and JWST*”
- **Mar 2023** – PALS Seminar, University of Maryland, MD, USA – “*Into the IR: Exploring Exoplanet Atmospheres with Hubble and JWST*”
- **Jun 2022** – Astronomical Data Group Community Meeting, CCA Flatiron Institute, NY, USA (Online) – “*Retrievals of WASP-17b*”
- **May 2022** – Astrophysics Seminar, American Museum of Natural History, NY, USA (Online) – “*Exploring Exoplanet Atmospheres with Multi-wavelength Observations*”
- **May 2022** – Planetary Lunch, University of California: Santa Cruz, CA, USA (Online) – “*Exploring Exoplanet Atmospheres with Multi-wavelength Observations*”
- **Apr 2022** – CIERA Science Happy Hour, Northwestern University, IL, USA (Online) – “*Revisiting a Classic: Comprehensive Reanalysis of the Transmission Spectrum of the Hot Jupiter WASP-17b*”
- **May 2020** – Exoplanet Presentation Seminar Series, Center for Astrophysics | Harvard-Smithsonian, MA, USA (Online) – “*LRG-BEASTS: Ground-based detection of Na and aerosols in the atmosphere of WASP-21b*”
- **May 2020** – STARGATE Collaboration Seminar (Online) – “*LRG-BEASTS: Ground-Based Transmission Spectroscopy of the Highly Inflated Hot Saturn WASP-21b*”

Contributed Conference Posters

- **Jan 2024** – School of Physics Research Day, University of Bristol, UK – “*Examining exo-climates across planetary transitions with JWST NIRSpec*”, **Alderson, L.**, et al.
- **Jun 2023** – Exoclimes VI, University of Exeter, UK – “*Examining exo-climates across planetary transitions with JWST NIRSpec*”, **Alderson, L.**, et al.
- **Sep 2022** – UK Exoplanet Community Meeting (UKEXOM), University of Edinburgh, UK (Online) – “*Revisiting a Classic: Comprehensive Reanalysis of the Transmission Spectrum of the Hot Jupiter WASP-17b*”, **Alderson, L.**, et al.
- **May 2022** – Exoplanets IV, Las Vegas, NV, USA – “*Revisiting a Classic: Comprehensive Reanalysis of the Transmission Spectrum of the Hot Jupiter WASP-17b*”, **Alderson, L.**, et al.
- **Jul 2021** – UK National Astronomy Meeting 2021, Bath, UK (Online) – “*Astrobites: Blogging about astrophysics*”, Haggard, R., Ramasawmy, J., **Alderson, L.**, et al.
- **May 2021** – Emerging Researchers in Exoplanet Science Symposium (ERES), Princeton, NJ, USA (Online) – “*LRG-BEASTS: Ground-based Detection of Sodium and a Steep Optical Slope in the Atmosphere of the Highly Inflated Hot-Saturn WASP-21b*”, **Alderson, L.**, et al.
- **Jul 2020** – Exoplanets III, Heidelberg, Germany (Online) – “*LRG-BEASTS: Ground-based Detection of Sodium and a Steep Optical Slope in the Atmosphere of the Highly Inflated Hot-Saturn WASP-21b*”, **Alderson, L.**, et al.
- **Jan 2020** – 235th American Astronomy Society (AAS) Meeting, Honolulu, HI, USA – “*Transmission Spectroscopy of the Highly Inflated Hot Saturn WASP-21b*”, **Alderson, L.**, et al.

ATTENDED WORKSHOPS

- **Signal in the Noise**, Ringberg Castle, Germany, Nov 2025
- **NASA ExoExplorers Program**, Online, Jan-Jun 2024
- **OWL Exoplanet Summer Program**, University California: Santa Cruz, USA, Jul 2023
- **Physics Postgraduate Researchers Who Teach**, University of Bristol, Feb-Jun 2023
- **Celebrating JWST’s first six months of exoplanet data**, Ringberg Castle, Germany, Nov 2022

- **Transiting Exoplanet Community ERS Post-Launch Data Challenge**, Hybrid, Mar 2022
- **Transiting Exoplanet Community ERS Pre-Launch Theory Webinar**, Online, Jul-Aug 2021
- **Transiting Exoplanet Community ERS Pre-Launch Data Hackathon**, Online, Jun 2021
- **UKRI STFC Introductory Course in Astronomy for New Research Students**, Armagh Observatory and Planetarium, UK (Online), Jan 2021
- **Introductory Astrobiology**, The Open University, UK, (Online), Nov 2020

COLLABORATIONS

- **Transiting Exoplanet Community ERS Program**: Transmission Working Group Member
- **JWST GTO Telescope Scientist Team**: Project Level Exoplanet Transit Spectroscopy Member
- **KRONOS (JWST GO-5959)**: Co-Investigator
- **BOWIE-ALIGN Survey (JWST GO-3838)**: Co-Investigator
- **COMPASS Collaboration (JWST GO-2512)**: Co-Investigator
- **HUSTLE Program (HST GO-17183)**: Co-Investigator
- **BOWIE Collaboration**: Member
- **STARGATE Collaboration**: Member

PUBLICATIONS

ORCID: [0000-0001-8703-7751](https://orcid.org/0000-0001-8703-7751)

Total Refereed Publications: 5 first author, 37 co-author [6 Nature, 1 Nature Ast., 17 AJ, 2 ApJ, 6 ApJL, 8 MNRAS, 1 RASTI, 1 RNAAS]
H-index = 19; total citations = 2413

First Author Publications

- **Alderson, L.** et al. under review, *Spatially Mapping the Atmospheric Limb of a Hot Jupiter*, Nat. Astro.
- **Alderson, L.** et al., *JWST COMPASS: NIRSpec/G395H Transmission Observations of the Super-Earth TOI-776b*, 2025, AJ, 169, 142
- **Alderson, L.** et al., *JWST COMPASS: NIRSpec/G395H Transmission Observations of the Super-Earth TOI-836b*, 2024, AJ, 167, 5
- **Alderson, L.** et al., *Early Release Science of the Exoplanet WASP-39b with JWST NIRSpec G395H*, 2023, Nature 614, 664–669
- **Alderson, L.**, et al. *A Comprehensive Analysis of WASP-17b's Transmission Spectrum from Space-Based Observations*, 2022, MNRAS, 512, 4185
- **Alderson, L.**, et al. *LRG-BEASTS: ground-based detection of sodium and a steep optical slope in the atmosphere of the highly inflated hot-saturn WASP-21b*, 2020, MNRAS, 497, 5182

Significant Co-Author Contributions

- Gressier, A., Batalha, N. E., Wogan, N., **Alderson, L.** et al., *JWST-TST DREAMS: Sulfur dioxide in the atmosphere of the Neptune-mass planet HAT-P-26 b from NIRSpec G395H transmission spectroscopy*, 2025, AJ, 170, 29
- Bennet, K., et al., *Additional JWST/NIRSpec Transits of the Rocky M Dwarf Exoplanet GJ 1132 b Reveal a Featureless Spectrum*, 2025, AJ, 170, 205
- Ahrer, E.-M., Gandhi, S., **Alderson, L.**, et al., *Tracing the formation and migration history: molecular signatures in the atmosphere of misaligned hot Jupiter WASP-94Ab using JWST NIRSpec/G395H*, 2025, MNRAS, 540, 2535
- Louie, D., Mullens, E., **Alderson, L.** et al., *JWST-TST DREAMS: A Precise Water Abundance for Hot Jupiter WASP-17b from the NIRISS SOSS Transmission Spectrum*, 2025, AJ, 169, 86
- Wallack, N., Batalha, N., **Alderson, L.**, et al., *JWST COMPASS: A NIRSpec/G395H Transmission Spectrum of the Sub-Neptune TOI-836c*, 2024, AJ, 168, 77

- May, E. M. & MacDonald, R. J., et al., *Double Trouble: Two Transits of the Super-Earth GJ 1132 b Observed with JWST NIRSpec G395H*, 2023, ApJL, 959, 1
- Grant, D., et al., *JWST-TST DREAMS: Quartz Clouds in the Atmosphere of WASP-17b*, 2023, ApJL, 956, 2
- JTEC ERS Team, *Identification of CO₂ in an exoplanet atmosphere*, 2023, Nature, 614, 649–652

Co-Author Publications

- Meech, A., *JWST COMPASS: A NIRSpec G395H Transmission Spectrum of Radius Valley-Dweller TOI-260 b*, 2026, AJ, in press
- Fairman, C. et al., *BOWIE-ALIGN: Exploring degeneracies in the muted transmission spectrum of the aligned hot Jupiter NGTS-2b with NIRSpec/G395H*, 2026, MNRAS, in press
- Claringbold, A. B. et al., *BOWIE-ALIGN: Sub-solar C/O ratio and metallicity atmosphere of the misaligned hot Jupiter HAT-P-30 b*, 2026, MNRAS 546, 4
- Sotzen, K. et al., *Non-detection of Nightside Emission from HAT-P-26b due to Stellar Contamination*, 2025 RNAAS, 9, 352
- Wallack, N. et al., *JWST COMPASS: NIRSpec/G395H Observations of the Sub-Neptune HD 15337 c*, 2026, AJ, 171, 180
- Lustig-Yaeger, J. et al., *JWST-TST DREAMS: The Nightside Emission and Chemistry of WASP-17b*, 2025, ApJL, 994, L4
- Adams, J., et al., *JWST COMPASS: A NIRSpec G395H Transmission Spectrum of the Super-Earth GJ 357 b*, 2025, AJ, 170, 219
- Ahrer, E.-M., et al., *BOWIE-ALIGN: weak spectral features in KELT-7b’s JWST NIRSpec/G395H transmission spectrum imply a high cloud deck or a low-metallicity atmosphere* 2025, MNRAS, 543, 2442,
- Glidden, A., et al., *JWST-TST DREAMS: Secondary Atmosphere Constraints for the Habitable Zone Planet TRAPPIST-1e*, 2025, ApJL, 990, L53,
- Espinoza, N., et al., *JWST-TST DREAMS: NIRSpec/PRISM Transmission Spectroscopy of the Habitable Zone Planet TRAPPIST-1 e*, 2025, ApJL, 990, L52,
- Gascon, C., et al., *The HUSTLE Program: The UV to Near-IR Transmission Spectrum of the Hot Jupiter KELT-7b*, 2025, AJ, 170, 178,
- Meech, A., et al., *BOWIE-ALIGN: Sub-stellar metallicity and carbon depletion in the aligned TrES-4b with JWST NIRSpec transmission spectroscopy*, 2025, MNRAS, 539, 1381
- Teske, J. & Batalha, N. E. et al., *JWST COMPASS: NIRSpec/G395H Transmission Observations of TOI-776 c, a 2 R_⊕ M Dwarf Planet*, 2025, AJ, 169, 249
- Kirk, J. et al., *BOWIE-ALIGN: JWST reveals hints of planetesimal accretion and complex sulphur chemistry in the atmosphere of the misaligned hot Jupiter WASP-15b*, 2025, MNRAS, 537, 3027
- Gressier, A. et al., *JWST-TST DREAMS: A Super-Solar Metallicity in WASP-17 b’s Day-side Atmosphere from NIRISS SOSS Eclipse Spectroscopy*, 2025, AJ, 169, 57
- Alam, M. K. et al., *JWST COMPASS: The first near- to mid-infrared transmission spectrum of the hot super-Earth L 168-9 b*, 2025, AJ, 169, 15
- Boehm, V. A. et al., *The HUSTLE Program: The UV to Near-Infrared HST WFC3/UVIS G280 Transmission Spectrum of WASP-127b*, 2025, AJ, 169, 23
- Kirk, J. et al., *BOWIE-ALIGN: A JWST comparative survey of aligned vs misaligned hot Jupiters to test the dependence of atmospheric composition on migration history*, 2024, RAS Techniques and Instruments, 3, 691
- Scarsdale, N. et al., *JWST COMPASS: The 3-5 Micron Transmission Spectrum of the Super-Earth L 98-59 c*, 2024, AJ, 168, 276
- Valentine, D. et al., *JWST-TST DREAMS: Non-Uniform Dayside Emission for WASP-17b from MIRI/LRS*, 2024, AJ, 168, 123
- Carter, A. L. & May, E. M. et al., *A Benchmark JWST Near-Infrared Spectrum for the Exoplanet WASP-39b*, Nature Astronomy, 2024, 8, 1008–1019,

- Waalkes, W., et al., *Quantifying the Transit Light Source Effect on AU Microscopii: Measurements of Spot Temperature and Coverage with High-Resolution Spectroscopy and Multi-Color Photometry*, 2024, ApJ, 962, 1
- Grant, D., et al., *Detection of CO's fundamental band structure in WASP-39b's atmosphere with JWST NIRSpec G395H*, 2023, ApJL, 949, L15
- Libralato, M., et al., *JWST-TST Proper Motions: I. High-Precision NIRISS Calibration and LMC Kinematics*, 2023, ApJ, 950, 101
- Tsai, S-M., et al., 2023, *Photochemically produced SO₂ in WASP-39b*, Nature, 617, 483-487
- Rustamkulov, Z., et al., *Early Release Science of the Exoplanet WASP-39b with JWST NIRSpec PRISM*, 2023, Nature, 614, 659–663
- Ahrer, E-M., et al., *Early Release Science of the Exoplanet WASP-39b with JWST NIRCам*, 2023, Nature, 614, 653–658
- Feinstein, A.D., et al., *Early Release Science of the Exoplanet WASP-39b with JWST NIRISS*, 2023, Nature, 614, 670–675
- Batalha, N. E., et al., *Importance of Sample Selection in Exoplanet Atmosphere Population Studies*, 2022, AJ, 165, 14