

Dr Emily Rickman

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Astronomer for the European Space Agency (ESA) based at the Space Telescope Science Institute supporting the science operations of the NASA/ESA Hubble Space Telescope (HST) and the James Webb Space Telescope (JWST).

Research interests and background: Exoplanets - atmospheres and masses, brown dwarfs, low mass stars; high-contrast imaging; spectroscopy; coronagraphy; radial velocities; astrometry; interferometry; orbital monitoring; instrumentation

EDUCATION

JUNE 2020 | **Ph.D., Astronomy & Astrophysics**
Geneva Observatory, University of Geneva, Switzerland. Supervisor: Prof. Damien Ségransan
“*Direct Imaging and Spectral Characterisation of Long Period Exoplanets and Brown Dwarfs*”

JUNE 2016 | **Master of Physics & Astrophysics**
University of Sheffield, UK / The Australian National University, Australia.
Supervisors: Prof. Simon Goodwin and Prof. Mike Ireland
Classification: 1st Class with Honours

PROFESSIONAL APPOINTMENTS

- NOVEMBER 2022
– PRESENT | **Astronomer / Science Operation Scientist**
European Space Agency, Space Telescope Science Institute, Baltimore, MD, USA
- 65+ refereed research publications across *Nature*, *PASP*, *ApJ*, *AJ*, *A&A*, *JATIS*, *MNRAS*
 - **Principal investigator** JWST GO-6362, awarded 358,111 USD of competitive NASA funding
 - **Supervision and mentorship** of two postdocs and four PhD students
 - **Documentation lead** for Hubble’s Space Telescope Imaging Spectrograph (STIS).
 - **Calibration lead** of several programs across optical and UV wavelengths with HST/STIS.
 - Member of the **JWST Telescope Scientist Team** for high-contrast imaging.
- JANUARY 2023
– APRIL 2023 | **NASA Astrophysics Mission Design Project Manager**
NASA Jet Propulsion Laboratory, Pasadena, CA, USA
- Selected for a competitive program as the only foreign national and elected as **project manager** to lead the mission design team to develop a \$1Billion, probe-class, space-based UV mission.
 - Designed the science traceability and worked alongside NASA/JPL’s concurrent design engineering team to develop a hypothesis-driven robotic space mission
- SEPTEMBER 2020
– OCTOBER 2022 | **European Space Agency Research Fellow**
Space Telescope Science Institute, Baltimore, MD, USA
- Awarded a competitive fellowship (~ 500,000 USD) to lead a program to develop new techniques to combine radial velocity, direct imaging, and absolute astrometric data from ESA missions *Hipparcos* and *Gaia* to detect, weigh, and characterise exoplanets.
 - **NIRSpec Data Reduction Lead** for the JWST/ERS High-Contrast Imaging program.
 - **Principal Investigator** of JWST/NIRSpec commissioning program through launch campaign.
 - **Principal Investigator** of multiple ground- and space-based observing programs.
- JUNE 2020
– AUGUST 2020 | **Postdoctoral Researcher**
University of Geneva, Switzerland. Supervisor: Prof. Damien Ségransan
- **Principal investigator** of five awarded ESO ground-based observing proposals on VLT/SPHERE on direct imaging and spectral characterization of ultra-cool companions to Solar type stars, as well as atmospheric characterisation and orbital monitoring of brown dwarf companions from radial velocity surveys.
 - **Program co-ordinator** of the search for long-period radial-velocity exoplanets using the CORALIE spectrograph on the EULER telescope in La Silla, Chile, looking for giant planets and brown dwarfs to image using VLT/SPHERE.

AWARDS, HONOURS, AND GRANTS

Total amount awarded/funded across grants, fellowships, and awards: approx. **960,000 USD**

- 2024 | **PI: Rickman, “*Breaking the degeneracy: substellar anchors for evolutionary models*”, JWST-GO-6362, NASA, (358,111 USD)**
PI: Rickman, “*Unveiling the Origin of Warm Jupiters*”, ESA Faculty Funding (2,824 USD)
Global Winner, Science and Sustainability Award, British Council (3,000 USD)
USA Science and Sustainability Award, British Council (1,500 USD)
- 2023 | **NASA Astrophysics Mission Design travel funding, NASA/JPL (1,700 USD)**
ESA Think Tank on Astrobiology, PI: M. Günther, ESA Faculty Funding (30,000 EUR)
- 2022 | **Co-PI: Rickman, Exoplanet Dynamical Mass Workshop, STScI Director’s Discretionary Research Funds, (~10,000 USD)**
Emerging Researchers in Exoplanetary Science, The Heising-Simons Foundation, USA (1,500 USD)
NASA Exoplanet Program Analysis Group Meeting travel funding, NASA/JPL, USA (3,000 USD)
Exoplanet Summer Program Funding, Other Worlds Laboratory, UC Santa Cruz, USA (3,000 USD)
- 2021 | **PI: Rickman, “*Toward the Comprehensive Characterization of Exoplanets: Science at the Interface of Multiple Measurement Techniques*”, STScI Director’s Discretionary Research Funds (20,000 USD)**
Outstanding Achievement Award, The Sutton Trust, University of Cambridge, UK (100 GBP)
IAU Junior Member of the Month, International Astronomical Union
- 2020 | **European Space Agency Research Fellowship, Space Telescope Science Institute, USA (~ 500,000 USD)**
- 2019 | **National Center of Competence in Research Switzerland ‘Planets’ Grant, Switzerland (800 CHF)**
Women in Space Grant, Arizona State University, Phoenix, USA (660 USD)
- 2018 | **National Center of Competence in Research Switzerland ‘Planets’ Grant, Switzerland (1,000 CHF)**
PyData Scholarship, London, UK (180 GBP)
- 2017 | **NCCR PlanetS Junior Researchers’ Assembly (JURA), (25,000 CHF), Sainte-Croix, Switzerland**
- 2016 | **Sheffield Graduate Award, University of Sheffield, UK**
- 2015 | **Sheffield Undergraduate Research Experience Grant, University of Sheffield, UK (1,500 GBP)**

PROFESSIONAL SERVICE

- Ongoing | **STScI Exoplanetary Systems Imaging Group, Research Group Co-Lead**
ESA Space Science Faculty Council, Committee Member
UK Science and Technology Facilities Council (STFC), Grant Reviewer
STScI Research Support Advisory Committee, Proposal Reviewer
AAS *Astrophysical Journal*, A&A, PASP, Reviewer
ESA Open Space Innovation Platform, Proposal Reviewer
- 2023 | **Science with the Habitable Worlds Observatory and Beyond, ECR Mentor & Committee Member**
ESA Think Tank on Astrobiology, Science Committee Member
- 2022 | **NASA Exoplanet Research Program (XRP) Review, Panel Chair and Reviewer**
NASA TESS Cycle 5 Review Member, Panelist
First Science Results from JWST, Scientific Organizing Committee and Session Chair
STScI Symposium 2023, Scientific Organizing Committee
STScI Exoplanet Dynamical Mass Workshop, Chair of Scientific Organizing Committee
- 2021 | **NASA Exoplanet Research Program (XRP) Review, Panel Chair and Reviewer**
NASA TESS Cycle 4 Review Member, Panelist
JWST Cycle 1 Review Member, Panel Support Scientist
HST Cycle 29 Review Member, Panel Support Scientist
STScI Exoplanet, Star & Planet Formation Seminar Series, Co-Organizer
ESO Exoplanet Atmospheres Workshop, Scientific Organizing Committee
ESA Research Fellowship Hiring Committee, Reviewer
The 20.5th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun. Awarded Splinter Session ‘*Brown Dwarf Modelling*’, Session Lead
- 2020 | **ESA/Hubble Space Telescope Press Release Outreach Review Committee, Scientific Reviewer**
Chair of Scientific & Local Organizing Committee: STScI Symposium 2021, ‘*Towards the comprehensive characterization of exoplanets: Science at the Interface of Multiple Measurement Techniques*’
ESA Distinguished Visitor Committee, Reviewer

TEACHING, MENTORSHIP AND SUPERVISION EXPERIENCE

- Ongoing | **Supervisor**, STScI postdoc, Dr. Alex Madurowicz
Co-supervisor, Johns Hopkins University Ph.D. student, William Balmer
Science Mentor, STScI Giacconi postdoctoral fellow, Dr. Kielan Hoch
Science Mentor, University of Maryland Ph.D. Student, Ell Bogat
Co-Lead, the Exoplanetary Systems Imaging Group at STScI
Advisor on external student-led projects:
University of Geneva Ph.D. student, Will Ceva
University College London Ph.D. student, Hannah Osborne
- 2023 | **Invited Lead Mentor**, 20+ Early Career Researchers as attendees of the HWO and Beyond Conference
- 2022 | **Chair and Mentor**, 10+ Early Career Researchers as attendees of the STScI Dynamical Mass Workshop
- 2021 | **Invited Lecturer**, STScI lecture series, “*How to Hunt for Distant Worlds*” (31K+ views on YouTube)
Invited Lecturer, “*Obtaining Spectra from Direct Imaging Observations*”, European Southern Observatory Exoplanet Atmospheres Workshop
- 2016-2020 | **Instructor**, trained incoming Ph.D. students as observers on the EULER/1.2m telescope in Chile
Tour guide, Geneva Observatory. Taught astronomy lessons to audiences including university students
- 2019 | **Supervisor**, several work experience students at Geneva Observatory
- 2017 | **Co-supervisor**, Masters student, Henrik Ruh, Geneva Observatory
- 2012-2016 | **Mentor**, University of Sheffield – three undergraduate students
- 2012-2014 | **Private Physics Tutor**, A-Level Students

INVITED COLLOQUIA, SEMINARS, AND TALKS

- Upcoming* | **Invited Seminar**, American Museum of Natural History, NYC, USA
- 2024 | **Invited Topical Talk**, Johns Hopkins University, Baltimore, USA
- 2023 | **Invited Colloquium**, International Space Science Institute, Bern, Switzerland
Invited Seminar, Carnegie Earth & Planets Laboratory, Washington DC, USA
Invited Seminar, NASA Jet Propulsion Laboratory, Pasadena, USA
Invited Seminar, NASA Goddard Space Flight Center, Greenbelt, USA
Invited Seminar, Penn State University, State College, USA
Invited Seminar, University of Sheffield, Sheffield, UK
- 2022 | **Invited Seminar**, European Southern Observatory, Santiago, Chile
Invited Seminar, University of Michigan, Ann Arbor, USA
Invited Talk, Other Worlds Laboratory, UC Santa Cruz, USA
Invited Talk, NASA Exoplanet Program Analysis Group Meeting, Pasadena, USA
Invited Seminar, STScI Discovery Seminar Series, USA, online
- 2021 | **Invited Colloquium**, Florida Institute of Technology, USA, online
Invited Lecture, European Southern Observatory, Germany, online
Invited Colloquium, Center for Space and Habitability, University of Bern, Switzerland, online
Invited Seminar, JILA - University of Colorado Boulder, USA, online
Invited Talk, NASA Goddard Space Flight Center, USA, online
- 2020 | **Invited Seminar**, European Space Agency Science Seminar Series, Spain, online
Invited Talk, Space Telescope Science Institute Colloquium, USA, online
Invited Talk, European Space Astronomy Centre, Spain
- 2019 | **Invited Talk**, University of Sheffield, UK
Invited Seminar, Lancaster University, UK
Invited Talk, NCCR PlanetS General Assembly V, Beatenberg, Switzerland
Invited Talk, NACO-ISPY Science Team Meeting, ETH Zürich, Switzerland
- 2018 | **Invited Talk**, NCCR PlanetS General Assembly IV, Grindelwald, Switzerland
- 2017 | **Invited Talk**, NACO-ISPY Science Team Meeting, MPIA, Heidelberg, Germany

RECENT OUTREACH AND DEI ACTIVITIES

- 2024 | **Invited speaker**, STEM Center Africa, Kenya
Invited speaker, Total Eclipse of the Park, Sci-Tech Discovery Center, TX, USA
Invited speaker, **EDSnaps Global Youth Leadership Program**, Kenya and Ghana
Selected speaker, Soapbox Science, NY, USA
Invited speaker, Oriol High School, UK
- 2023/24 | **NASA Inspires Futures for Tomorrow's Youth (NIFTY)**, Role Model
- 2023 | **Invited Speaker**, Kopernik Observatory & Science Center, NY, USA
Speaker, Astronomy on Tap, Baltimore, MD, USA
Invited Panelist, Webb's First Anniversary: One Year of Science Panel Discussion
Invited Talk, Boy Scouts of America, Blue & Gold Award Ceremony, MD, USA
Alumni Coach for Science and Engineering, University of Sheffield, UK
Invited speaker, *Legends at Lunchtime*, Oriol High School, UK
Featured Alumni, LGBTQ+ History Month as presented by the University of Sheffield, UK
- 2022 | **Invited Speaker**, The Boardroom Masterclasses, University of Sheffield, UK
Invited Speaker, NASA Subject Matter Expert for JWST, Space Talks, Liberty Science Center, NJ, USA
Invited Panelist, Space Panel, National Women in Science & Engineering Conference, Canada
Invited Speaker, Astronomical Society, Ohio State University, OH, USA
Invited Speaker, Inspirational Speaker Series, Sheffield Insights, University of Sheffield, UK
Invited Panelist, Insight into STEM Careers, The Sutton Trust, UK
Invited Speaker, Youth for Astronomy & Engineering Forum, Space Telescope Science Institute, MD, USA
Invited Speaker, Outreach talk at Oriol High School, UK
Social Media and Communications Team Member, Women in Aerospace Society Europe
- 2021 | **Invited Subject Matter Expert for NASA JWST Events**, McWane Science Center, AL, USA
Invited Lecturer, **STScI Public Lecture Series**, Space Telescope Science Institute (>31K YouTube views)
Caroline Herschel Visitor Program, Space Telescope Science Institute, Committee Member
"A Scientist Just Like Me", Primary Science Teaching Trust UK, Invited Featured Scientist

CURRENT LARGE RESEARCH COLLABORATIONS

- Since 2024 | **JWST Broad Repository Exoplanet, Analysis, Discovery, and Spectroscopy Science Team**
Since 2023 | **High-Resolution Imaging and Spectroscopy of Exoplanets (HiRISE)**, Science Team
Since 2021 | **JWST Telescope Scientist Team**, Project-Level Member – High Contrast Imaging
Since 2021 | **JWST High Contrast Imaging Early Release Science Program**, Spectroscopy Theme Co-Lead
Since 2020 | **ExoGRAVITY Consortium**, Science Team
Since 2020 | **STScI Extrasolar Planetary Systems Imaging Group**, Co-Lead and Group Member

PROFESSIONAL MEMBERSHIPS

International Astronomical Union (IAU), American Astronomical Society (AAS), Europlanet Society (EPS), European Astronomical Society (EAS), Women in Astronomy Forum (WIAF) at STScI, Space Generation Advisory Council (SGAC)

ADDITIONAL TRAINING

- 2023 | **Intermediate Python Training**, Space Telescope Science Institute, MD, USA
NASA Astrophysics Mission Design, NASA/Jet Propulsion Laboratory, Pasadena, USA
Instruments Division Training, Space Telescope Science Institute, MD, USA
- 2022 | **Introduction to Data Science course**, Space Telescope Science Institute, MD, USA
NASA Exoplanet Science Institute Summer Workshop: Exoplanet Science in the Gaia Era, online
- 2021 | **Advanced Git training course**, Space Telescope Science Institute, online
Introductory Git training course, Space Telescope Science Institute, online
JWebbinar: "Pipeline Information and Data Products", Space Telescope Science Institute, online
NASA Exoplanet Science Institute Summer Workshop: Circumstellar Disks & Young Planets, online
- 2020 | **NASA Exoplanet Science Institute Summer Workshop: Extreme Precision Radial Velocity**, online
- 2018 | **PyData Workshop**, London, UK
Exoplanets in Binary Stars Workshop, Bern, Switzerland
Penn State Astrostatistics Summer School, State College, USA
- 2017 | **CADMOS High Performance Computing Course**, Château d'Ex, Switzerland

TELESCOPE EXPERIENCE

Ground- and space-based observations in the ultraviolet and optical through to the near and mid-infrared.
Coronagraphic Imaging | High-Resolution Spectroscopy – Radial Velocities | Integral Field Spectroscopy | Interferometry

Observing and Teaching Experience

VLT/8.2m	50+ observing nights with NACO, SPHERE, and GRAVITY. High-contrast imaging and interferometry, including training Ph.D. student, William Balmer.
EULER/1.2m	30+ observing nights as program coordinator and training several Ph.D. students as new observers on the CORALIE high-resolution spectrograph and the EULER camera.
ANU/2.5m	Ad-hoc observing student support with the Wide Field Spectrograph (WiFeS).

Awarded Telescope Time – Principal Investigator

JWST	Cycle 3, NIRSpec/IFU [30 hours] <i>“Breaking the degeneracy: substellar anchors for evolutionary models”</i>
ESO	P111 VLT/GRAVITY [7 hours] <i>“Towards the comprehensive characterisation of benchmark brown dwarfs”</i>
	P108 VLT/GRAVITY [3 hours] <i>“Towards complete characterisation of the benchmark brown dwarf HD 13724 B”</i>
	P105 VLT/SPHERE [12 hours] (Re-assigned to P107/P108 due to COVID-19) <i>“Direct Imaging and Spectral Characterisation of Ultra-Cool companions to Solar type stars.”</i>
	P104 VLT/SPHERE [12 hours] <i>“Atmospheric characterisation and orbital monitoring of two brown dwarf companions from radial velocity surveys.”</i>
	P104 VLT/SPHERE [10 hours] <i>“Direct Imaging and Spectral Characterisation of Ultra-Cool companions to Solar type stars.”</i>
	P103 VLT/SPHERE [9 hours] <i>“Direct Imaging and Spectral Characterisation of Ultra-Cool companions to Solar type stars.”</i>
	P102 VLT/SPHERE [6 hours] <i>“Direct Imaging and Spectral Characterisation of Ultra-Cool companions to Solar type stars.”</i>
HST	Cycle 31/32, STIS Calibration <i>“STIS MAMA Full Field Sensitivity Monitor”</i>
	Cycle 31/32, STIS Calibration <i>“STIS CCD Full Field Sensitivity”</i>
	Cycle 31/32, STIS Calibration <i>“STIS CCD Imaging Flat-Field Monitor”</i>

Co-Investigator

JWST	Cycle 3, NIRCам Coronagraphy [95 hours] <i>“Into The Spotlight: Unveiling Wide-Separation Sub-Jupiters for Future JWST Characterization”</i>
	Cycle 3, NIRSpec IFU [19.3 hours] <i>“First image and spectrum of a true Jupiter-Saturn Analog”</i>
	Cycle 3, MIRI MRS [6.6 hours] <i>“Catching a cat by the tail: Tracing Dust Dynamics in the Beta Pictoris Debris Disk in the Aftermath of Giant Collisions”</i>
	Cycle 3 Archival Research <i>“Moving forward, get to the point: a forward model approach to the point cloud for accurate spectral extraction with JWST’s IFUs”</i>
	Cycle 2 DDT, NIRCам Coronagraphy [6.5 hours] <i>“Establishing the Formation of AF Lep b with NIRCам: The Lowest-Mass Imaged Exoplanet with a Dynamical Mass”</i>
	Cycle 2, NIRCам Coronagraphy [45.73 hours] <i>“Uncharted Worlds: Towards a Legacy of Direct Imaging of Sub-Jupiter Mass Exoplanets”</i>
	Cycle 2, MIRI MRS [10.7 hours] <i>“GJ504 b is really cool: a new atmospheric window into Jupiter’s evolution with JWST/MIRI”</i>
	Cycle 2, NIRSpec IFU [11.4 hours] <i>“An Empirical Calibration of the NIRSpec IFU Point Spread Function to Enable High Contrast Imaging Spectroscopy”</i>
	Cycle 2, NIRCам Coronagraphy [7.4 hours] <i>“Solving a Solar Neighborhood Crime Scene by Imaging 14 Her c”</i>
	Cycle 2, NIRSpec IFU & MIRI-MRS [7.8 hours] <i>“Imaging Spectroscopy of the Coldest Imaged Exoplanet and a Low-Mass Accreting Protoplanet”</i>
	Cycle 2, NIRSpec PRISM & MIRI-LRS [24.4 hours] <i>“Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability”</i>
	Cycle 1, NIRSpec/IFU & MIRI-LRS [5.2 hours] <i>“Direct Imaging Spectroscopy of two Jovian Exoplanets: Characterization of the TYC 8998-760-1 Multi-Planetary System”</i>

Co-Investigator continued

ESO	P114, VLT/GRAVITY [72 hours] <i>“Direct detection of giant exoplanets near the water-ice line”</i>
	P114, VLT/SPHERE [2 hours] <i>“Direct detection of the hidden companion responsible for the migration of the iconic planet GJ 436 b”</i>
	P114, VLT/HIRISE [38.1 hours] <i>“Direct characterization of substellar companions at high spectral resolution with the HiRISE visitor instrument”</i>
	P114, VLT/SPHERE [15 hours] <i>“Peering into JWST’s blind spot: a SPHERE SAM search for inner companions around JWST Cycle 3 coronagraphy targets”</i>
	P114, VLT/MATISSE [18.6 hours] <i>“Disentangling the atmospheres & circumplanetary disks of the PDS 70 protoplanets”</i>
	P114, VLT/GRAVITY [7 hours] <i>“The ExoGRAVITY+ Orbital Refinery”</i>
	P113, VLT/HIRISE [4 nights] <i>“Direct characterization of substellar companions at high spectral resolution with the HiRISE visitor instrument”</i>
	P113, VLT/GRAVITY [6 hours] <i>“Monitoring of a multiple planetary system in a young transition disk around a solar twin”</i>
	P113, VLT/SPHERE [12.5 hours] <i>“Obtaining direct directions of brown dwarf-star boundary objects to determine their dynamical masses”</i>
	P113, VLT/ERIS [3 hours] <i>“Planet migration caught in action: Constraining the mass of HD 4113 C by infrared direct imaging with ERIS”</i>
	P112, VLT/MATISSE [4.33 hours] <i>“A mid-infrared view of the atmosphere of beta Pictoris c with MATISSE/GRA4MAT”</i>
	P112, VLT/ESPRESSO [20.4 hours] <i>“Characterising a planet system around one of our nearest white dwarfs”</i>
	P112, VLT/SPHERE [5 hours] <i>“Imaging hidden brown dwarfs around accelerating stars”</i>
	P112, VLT/GRAVITY [9 hours] <i>“Investigating the 25 Myr L-T transition with VLT/GRAVITY observations of the new planet AF Lep b”</i>
	P112, VLT/GRAVITY + VLT/CRIRES [14 hours] <i>“Is the first T dwarf companion a brown dwarf binary?”</i>
	P112, VLT/MATISSE [0.25 night] <i>“Mid-infrared spectroscopy of the inner planet of HR 8799 with MATISSE and GRA4MAT”</i>
	P112, VLT/SPHERE [7.5 hours] <i>“Obtaining the first direct detections of 3 new brown dwarfs in order to determine their dynamical masses”</i>
	P111 VLT/SPHERE [15 hours] <i>“First images of six new brown dwarfs with dynamical mass constraints through RV and astrometry”</i>
	P111 VLT/GRAVITY [6 hours] <i>“Monitoring 51 Eri b for a perturbing inner companion”</i>
	P111 VLT/GRAVITY [16 hours] <i>“Populating the mass-luminosity diagram of brown dwarfs combining Gaia DR3 and GRAVITY”</i>
	P109 VLT-AT/GRAVITY [46 hours] <i>“Uncovering the Dynamical History of Brown Dwarf Companions”</i>
	P107 VLT/SPHERE [2 hours] <i>“Narrowing down orbital predictions of the exoplanet 51 Eridani b for GRAVITY follow-up”</i>
	P101-P104 VLT/NACO [56 nights] Large Program: <i>“NaCo Imaging Survey for Planets around Young stars (NaCo - ISPY).”</i>
	P101 VLT/SPHERE [6 hours] <i>“Atmospheric Characterization and Orbital Monitoring of a Cold Substellar Companion.”</i>
	P101 VLT/SPHERE [3 hours] <i>“Confirmation of two brown dwarfs around the Herbig Ae/Be star HD 101412”</i>
	P100 VLT/NACO [4 hours] <i>“Confirming a directly imaged gas giant planet candidate at 2.6 AU from its nearby host star”</i>
	P99-P100 VLT/NACO [28 nights] Large Program: <i>“NaCo Imaging Survey for Planets around Young stars (NaCo - ISPY).”</i>
	P98 VLT/NACO [14 nights] <i>“NaCo Imaging Survey for Planets around Young stars (NaCo - ISPY).”</i>
Keck	2022B, MOSFIRE [0.5 nights] <i>“Cloud structure of a T-Y transition Brown Dwarf”</i>
ESA	ESA, CHEOPS Cycle 3 [30 orbits] <i>“Understanding the formation and evolution of TESS and ASTEP confirmed sub-Neptunes”</i>
Subaru	Subaru/REACH [2.5 nights] <i>“Search for C/O tracers by the first high-dispersion coronagraphy”</i>
	Subaru/REACH [3 nights] <i>“Search for C/O tracers by the first high-dispersion coronagraphy”</i>

SELECTED MEDIA APPEARANCES AND PRESS RELEASES

Space for All Podcast	“Exploring the world of exoplanets with Dr. Emily Rickman”, 2024
NASA/ESA/STScI	“NASA’s Webb Spots Swirling, Gritty Clouds on Remote Planet”, 2023
SETI Institute	“The First Direct Images of Exoplanets with JWST ft. Dr. Emily Rickman”, 2023
Quanta Magazine	“Webb Space Telescope Snaps Its First Photo of an Exoplanet”, 2022
Scientific American	“Astronomers May Have Captured the First Ever Image of Nearby Exoplanet Proxima C”, 2020
Forbes	“At Last, Scientists Have Found The Galaxy’s Missing Exoplanets: Cold Gas Giants”, 2019
Astronomy Now	“Five long-period exoplanets found after 20 years of observation”, 2019
Le Temps	“Nouvelles exoplanètes à révolution longue”, 2019
Agencia EFE	“Cientistas descobrem 5 exoplanetas gigantes através de observações no Chile”, 2019
AccuWeather	“‘We’re not invisible people’: Meet these 6 LGBTQ scientists who are changing the world”, 2021
All About Space	Magazine Feature: “Ask an expert: How does the interstellar medium help form stars?”, 2021

PUBLICATION LIST

65 total refereed publications; *H*-index = 21; 1700+ total citations (NASA/ADS)

Papers with * show the supervision of a student/postdoc

First-author:

5. **E. L. Rickman**, W. Ceva*, E. Matthews et al. “The discovery of two new benchmark brown dwarfs with precise dynamical masses at the stellar-substellar boundary”, *A&A* 684, A88 (2024)
4. **E. L. Rickman**, E. Matthews, W. Ceva* et al. “Precise dynamical masses of new directly imaged companions from combining relative astrometry, radial velocities, and Hipparcos-Gaia eDR3 Accelerations”, *A&A* 668, A140 (2022)
3. **E. L. Rickman**, D. Ségransan, J. Hagelberg et al. “Spectral and atmospheric characterisation of a new benchmark brown dwarf HD 13724 B”, *A&A*, 635, A203 (2020)
2. **E. L. Rickman**, D. Ségransan, M. Marmier et al. “The CORALIE survey for southern extrasolar planets XVIII: Three new massive planets and two low-mass brown dwarfs at greater than 5 AU separation”, *A&A* 625, A71 (2019)
1. **E. L. Rickman**, W. Balmer*, L. Pueyo et al. “Comprehensive spectroscopic characterization of giant planet analogs with VLTI/GRAVITY”, in preparation

Supervisory/significant contributions:

6. K. Franson; W. Balmer*; B. Bowler; L. Pueyo; Y. Zhou; **E. Rickman**, et al. “JWST/NIRCam 4-5 μ m Imaging of the Giant Planet AF Lep b”, *AJ*, Volume 974, Issue 1, L11 (2024)
5. K. Hoch*; C. Theissen; T. Barman; M. Perrin; J.-B. Ruffio; **E. Rickman** et al. “JWST-TST High Contrast: Spectroscopic characterization of the substellar companion HD 19467 B with the NIRSpec Integral Field Spectrograph”, *AJ*, Volume 168, Issue 4, 187 (2024)
4. B. E. Miles; B. A. Biller; P. Patapis; K. Worthen; **E. L. Rickman** et al. “The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems II: A 1 to 20 Micron Spectrum of the Planetary-Mass Companion VHS 1256-1257 b”, *ApJL*, 946, 1 (2023) – NIRSpec/IFU Data Reduction Co-Lead
3. K. Hoch*; Q. Konopacky; C. Theissen; J.-B. Ruffio; T. Barman; **E. L. Rickman** et al. “Assessing the C/O Ratio Formation Diagnostic; A Potential Trend with Companion Mass”, *AJ*, Volume 166, Issue 3, 85 (2023)
2. W. Ceva*, **E. L. Rickman**, et al. “Spectral analysis of two new directly imaged benchmark companions at the stellar-substellar boundary”, submitted to *A&A*
1. E. Matthews, **E. L. Rickman**, W. Ceva* et al. “Resolving the mass tension of HD4113C: an unresolved binary, or an incorrect isochrone prediction?”, in preparation

Co-author (published and in press):

57. Xuan, Jerry W.; Mérand, A.; Thompson, W.; et al.; including **E. Rickman**, “The cool brown dwarf Gliese 229 B is a close binary”, *Nature*, Volume 634 (2024)
56. Maire, A.-L., Leclerc, A., Balmer, W.; including **E. Rickman**, “Direct imaging and dynamical mass of a benchmark T-type brown dwarf companion to HD 167665”, *A&A*, 691, A263 (2024)
55. Chai, Y.; Chen, C.; Worthen K.; et al.; including **E. Rickman**, “A JWST MIRI MRS view of the eta Tel Debris Disk and its Brown Dwarf Companion”, *ApJ*, Volume 976, 167, Issue 2 (2024)
54. Balakrishnan, M.; Bowens R.; Cruz Aguirre, F.; et al.; including **E. Rickman**, “MAUVE: An Ultraviolet Astrophysics Probe Mission Concept”, *PASP*, Volume 136, Issue 10 (2024)

53. Winterhalder, T. O.; Lacour, S.; Mérand, A.; et al.; including **E. Rickman** “Combining Gaia and GRAVITY: Characterising Eight New Directly Detected Substellar Companions”, A&A 688, A44 (2024)
52. Ruffio, J.-B.; Perrin, M.; Hoch K.; et al.; including **E. Rickman**, “JWST-TST High Contrast; Achieving direct spectroscopy of faint substellar companions next to bright stars with the NIRSpec IFU”, AJ, Volume 168, Issue 2, 35 (2024)
51. Nowak, M.; Lacour S.; Abuter, R.; et al.; including **E. Rickman**, “A catalogue of dual-field interferometric binary calibrators”, A&A, 687, A248 (2024)
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Under Review:

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7. Hoch, K.; Rowland, M. , Petrus, S.; et al. including **E. Rickman**, “*Direct detection of silicate clouds in a multiplanet system around a Sun-like star*”, submitted to *Nature*
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Other (non-refereed and technical) publications:

13. **E. Rickman** & J. Brown, “*Space Telescope Imaging Spectrograph Data Handbook Version 8.0*”, Hubble Space Telescope User Documentation (2024)
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8. A. Carter, R. Bowens-Rubin, P. Calissendorff, et al., including **E. Rickman**, “*Investing in the Unrivaled Potential of Wide-Separation Sub-Jupiter Exoplanet Detection and Characterisation with JWST*”, Strategic Exoplanet Initiatives with HST and JWST White Paper (2024)
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4. Hinkley, Sasha; Carter, Aarynn L.; Ray, Shrishmoy et al., including **Emily Rickman**, “*Direct imaging and spectroscopy of exoplanetary systems with the JWST early release science program*”, Proceedings of the SPIE, Volume 12180 (2022)
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2. A.-L. Maire, G. Chauvin, A. Vigan et al., including **E. L. Rickman**, “*High-precision astrometric studies in direct imaging with SPHERE*”, The ESO Messenger, vol. 183, p. 7-12 (2021)
1. A. Nota, A. Aloisi, S. Hernandez et al., including **E. L. Rickman**, “*The Women in Astronomy Forum at STScI: Affecting Change in the Local and Global Astronomical Communities*”, STScI Newsletters, Volume 37 Issue 02 (2020)

SELECTED CONFERENCE PRESENTATIONS

15. Upcoming Contributed Talk, “*Breaking the degeneracy: substellar anchors for atmospheric and evolutionary models*”. Atmospheric characterization of rocky to giant exoplanets in thermal emission with JWST (2025), Aspen, CO, USA.
14. **Invited Talk**, Topical Overview of High-Contrast Imaging, JHU-STScI ExoJamboree (2024), Baltimore, MD, USA.
13. Contributed talk: “*Combining (non-transiting) exoplanet measurement techniques to discover, weigh and characterize cold gas giants*”. SEEC Symposium (2024), NASA Goddard, Greenbelt, MD, USA.
12. Contributed Talk: “*Precise dynamical masses of new directly imaged companions from combining relative astrometry, radial velocities, and Hipparcos-Gaia eDR3 accelerations*”. Exoplanets IV Conference (2022), Las Vegas, USA.
11. Contributed Talk: “*Precise dynamical masses of new directly imaged companions from combining relative astrometry, radial velocities, and Hipparcos-Gaia eDR3 accelerations*”. Spirit of Lyot Conference (2022), Leiden, The Netherlands.
10. Contributed Talk: “*Precise dynamical masses of new directly imaged companions from combining relative astrometry, radial velocities, and Hipparcos-Gaia eDR3 accelerations*”. European Space Agency Space Science Workshop (2022), Akersloot, The Netherlands.
9. Contributed Talk: “*Precise dynamical masses of new directly imaged companions from combining relative astrometry, radial velocities, and Hipparcos-Gaia eDR3 accelerations*”. Emerging Researchers in Exoplanet Science VII Symposium (2022), Penn State, USA.
8. Contributed Talk: “*Precise dynamical masses of new directly imaged companions from combining relative astrometry, radial velocities, and Hipparcos-Gaia eDR3 accelerations*”. 240th AAS Meeting (2022), Pasadena, USA.
7. Contributed Talk: “*Precise dynamical masses of new directly imaged companions from combining relative astrometry, radial velocities, and Hipparcos-Gaia eDR3 accelerations*”. Bay Area Exoplanet Meeting 41 (2022), Santa Cruz, USA.
6. Contributed Talk: “*Preparing for the future of direct imaging exoplanets*”. IR2022: An Infrared Bright Future for Ground-based IR Observatories in the Era of JWST (2022), online.
5. **Invited Lecture**: “*Obtaining Spectra from Direct Imaging Observations*”, European Southern Observatory Exoplanet Atmospheres Workshop (2021), online.
4. Contributed Talk: “*Preparing for the future of direct imaging exoplanets through combining other exoplanet detection techniques*”. Europlanet Society Congress (2021), online.
3. Contributed Talk: “*Preparing for the future of direct imaging*”. European Astronomical Society Annual Meeting (2021), online.
2. Contributed Talk: “*Direct imaging and spectral characterisation of long period exoplanets and brown dwarfs*”. The 13th European Space Agency Space Science Workshop (2020), online.
1. Contributed Talk: “*Direct imaging and spectral characterisation of long period exoplanets and brown dwarfs*”. NASA Exoplanet Science Institute Exoplanets Demographics Conference (2020), online.

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