

DR. BIBIANA PRINOTH

INDEPENDENT RESEARCH FELLOW, EUROPEAN SOUTHERN OBSERVATORY, GERMANY

✉ bibiana.prinoth@eso.org

🌐 <https://bibianaprinoth.ch>

🔗 [bprinoth](#)

🆔 0000-0001-7216-4846

🌐 [bibiana-prinoth-699841175](#)

ACADEMIC BACKGROUND & RELEVANT EMPLOYMENT HISTORY

- 2025 – present 🎓 **Research Fellow, European Southern Observatory, Garching b. München, Germany**
75% independent research, 25% organisational duties (ELT)
- 2025 🎓 **Postdoctoral Researcher, Lund University, Sweden**
4 months post-PhD
- 2020 – 2025 🎓 **Ph.D. in Astronomy & Astrophysics, Lund University, Sweden & European Southern Observatory, Chile**
Thesis title: *High-resolution Transmission Spectroscopy of Gas Giant Atmospheres*
Advisors: H. Jens Hoeijmakers (LU), Elyar Sedaghati (ESO) & Julia V. Seidel (ESO)
ESO Studentship in Santiago, Aug 2023 - Jul 2024
- 2018 – 2020 🎓 **M.Sc. ETH in Physics, ETH Zürich, Switzerland**
Thesis title: *Detectability of Radial Velocity Planets with ELT / METIS*
Advisor: Sascha Quanz
- 2015 – 2019 🎓 **B.Sc. ETH in Physics, ETH Zürich, Switzerland**
Thesis title: *An Attempt to Calculate the Disc Fractional Polarisation of HD 142169.*
Advisor: Hans-Martin Schmid
- 2022 🎓 **Social Media Internship at the Europlanet Science Congress**
Europlanet Science Congress in Granada, Spain, Sep 18 – 23, 2022
- 2015 – 2016 🎓 **Substitute Teacher in Mathematics**
Kantonsschule Sargans (Gymnasium), Switzerland, Sep 21 – 25, 2015 / Feb 15 – 19, 2016

RESEARCH PUBLICATIONS

FIRST-AUTHORED

- 1 **B. Prinoth**, V. Parmentier, S. Pelletier, and et al., “A population view of transiting hot giant exoplanets: Tracing Fe and Ti chemistry with ESPRESSO and MAROON-X,” under review, available upon request.
- 2 **B. Prinoth**, J. V. Seidel, H. J. Hoeijmakers, B. M. Morris, et al., “Titanium chemistry of WASP-121 b with espresso in 4-ut mode,” *Astronomy & Astrophysics*, vol. 694, A284, Feb. 2025, ISSN: 1432-0746. 🌐 DOI: 10.1051/0004-6361/202452405.
- 3 **B. Prinoth**, H. J. Hoeijmakers, B. M. Morris, M. Lam, et al., “An atlas of resolved spectral features in the transmission spectrum of wasp-189 b with maroon-x,” *Astronomy & Astrophysics*, vol. 685, A60, May 2024, ISSN: 1432-0746. 🌐 DOI: 10.1051/0004-6361/202349125.
- 4 **B. Prinoth**, E. Sedaghati, J. V. Seidel, H. J. Hoeijmakers, et al., “High-resolution Transmission Spectroscopy of Warm Jupiters: An ESPRESSO Sample with Predictions for ANDES,” *The Astronomical Journal*, vol. 168, no. 3, p. 133, Aug. 2024, ISSN: 1538-3881. 🌐 DOI: 10.3847/1538-3881/ad5a7f.
- 5 **B. Prinoth**, H. J. Hoeijmakers, S. Pelletier, D. Kitzmann, et al., “Time-resolved transmission spectroscopy of the ultra-hot jupiter wasp-189 b,” *Astronomy & Astrophysics*, vol. 678, A182, Oct. 2023, ISSN: 1432-0746. 🌐 DOI: 10.1051/0004-6361/202347262.
- 6 Seidel, J. V. & **Prinoth, B.**, E. Knudstrup, H. J. Hoeijmakers, J. J. Zanazzi, and S. Albrecht, “Detection of atmospheric species and dynamics in the bloated hot jupiter wasp-172 b with espresso,” *Astronomy & Astrophysics*, vol. 678, A150, Oct. 2023, ISSN: 1432-0746. 🌐 DOI: 10.1051/0004-6361/202347160.
- 7 **B. Prinoth**, H. J. Hoeijmakers, D. Kitzmann, E. Sandvik, et al., “Titanium oxide and chemical inhomogeneity in the atmosphere of the exoplanet WASP-189 b,” *Nature Astronomy*, vol. 6, no. 4, pp. 449–457, Jan. 2022, ISSN: 2397-3366. 🌐 DOI: 10.1038/s41550-021-01581-z.




CO-AUTHORED (STUDENT PAPERS HIGHLIGHTED: **M.Sc.**, **B.Sc.**)

- 1 C. E. Fisher, M. J. Hooton, A. Gressier, M. Zraggen, et al., “JWST NIRSpec finds no clear signs of an atmosphere on TOI-1685 b,” vol. 545, no. 4, Feb. 2026. 🌐 DOI: 10.1093/mnras/staf2187.
- 2 M. Holmberg, H. Diamond-Lowe, J. M. Mendonça, D. Kitzmann, et al., “Hot Rocks Survey. V. Secondary Eclipse Photometry of GJ 3473 b with JWST/MIRI,” vol. 171, no. 4, p. 251, Apr. 2026, Art. no. 251. 🌐 DOI: 10.3847/1538-3881/ae4c45.

- 3 N. H. Allen, N. Espinoza, H. Diamond-Lowe, J. M. Mendonça, et al., “Hot Rocks Survey. IV. Emission from LTT 3780 b Is Consistent with a Bare Rock,” *The Astronomical Journal*, vol. 170, no. 4, p. 240, 2025, ISSN: 1538-3881. [DOI: 10.3847/1538-3881/adfc51](#).
- 4 P. C. August, L. A. Buchhave, H. Diamond-Lowe, J. M. Mendonça, et al., “Hot Rocks Survey I: A possible shallow eclipse for LHS 1478 b,” *Astronomy & Astrophysics*, vol. 695, A171, Mar. 2025, ISSN: 1432-0746. [DOI: 10.1051/0004-6361/202452611](#).
- 5 A. D. Feinstein, R. A. Booth, J. B. Bergner, J. D. Lothringer, et al., “On Linking Planet Formation Models, Protoplanetary Disk Properties, and Mature Gas Giant Exoplanet Atmospheres,” *arXiv preprints*, 2025. eprint: 2506.00669.
- 6 H. J. Hoeijmakers, **Jaworska, K. P.**, and **B. Prinoth**, “Exocomets of pictoris: I. exocomet destruction, sodium absorption and disk line variability in 17 years of harps observations,” *Astronomy & Astrophysics*, vol. 700, A239, Aug. 2025, ISSN: 1432-0746. [DOI: 10.1051/0004-6361/202451594](#).
- 7 E. A. Meier Valdés, B.-O. Demory, H. Diamond-Lowe, J. M. Mendonça, et al., “Hot Rocks Survey: II. The thermal emission of TOI-1468 b reveals a bare hot rock,” *Astronomy & Astrophysics*, vol. 698, A68, Jun. 2025, ISSN: 1432-0746. [DOI: 10.1051/0004-6361/202453449](#).
- 8 J. V. Seidel, **B. Prinoth**, L. Pino, L. A. dos Santos, et al., “Vertical structure of an exoplanet’s atmospheric jet stream,” *Nature*, vol. 639, no. 8056, pp. 902–908, Feb. 2025, ISSN: 1476-4687. [DOI: 10.1038/s41586-025-08664-1](#).
- 9 A. Simonnin, V. Parmentier, J. P. Wardenier, G. Chauvin, et al., “Time-resolved absorption of six chemical species with MAROON-X points to a strong drag in the ultra-hot Jupiter TOI-1518 b,” *Astronomy & Astrophysics*, vol. 698, A314, Jun. 2025, ISSN: 1432-0746. [DOI: 10.1051/0004-6361/202453241](#).
- 10 V. Vulato, M. J. Hobson, R. Allart, S. Pelletier, and J. P. e. a. Wardenier, “Atmospheric composition and circulation of the ultra-hot Jupiter WASP-121b with joint NIRPS, HARPS and CRIRES+ transit spectroscopy,” *Astronomy & Astrophysics*, vol. 703, A251, Nov. 2025, Art. no. A251. [DOI: 10.1051/0004-6361/202556257](#).
- 11 E. Ahrer, J. V. Seidel, L. Doyle, S. Gandhi, et al., “Atmospheric characterization and tighter constraints on the orbital misalignment of WASP-94Ab with HARPS,” *Monthly Notices of the Royal Astronomical Society*, vol. 530, no. 3, pp. 2749–2759, Apr. 2024, ISSN: 1365-2966. [DOI: 10.1093/mnras/stae1000](#).
- 12 N. W. Borsato, H. J. Hoeijmakers, D. Cont, D. Kitzmann, et al., “Small but mighty: High-resolution spectroscopy of ultra-hot Jupiter atmospheres with compact telescopes: Transmission spectrum of KELT-9 b with Wendelstein’s FOCES spectrograph,” *Astronomy & Astrophysics*, vol. 683, A98, Mar. 2024, ISSN: 1432-0746. [DOI: 10.1051/0004-6361/202347684](#).
- 13 H. J. Hoeijmakers, D. Kitzmann, B. M. Morris, **B. Prinoth**, et al., “The Mantis Network: IV. A titanium cold trap on the ultra-hot Jupiter WASP-121 b,” *Astronomy & Astrophysics*, vol. 685, A139, May 2024, ISSN: 1432-0746. [DOI: 10.1051/0004-6361/202244968](#).
- 14 M. B. Lam, H. J. Hoeijmakers, **B. Prinoth**, and B. Thorsbro, “Secrets in the shadow: High precision stellar abundances of fast-rotating A-type exoplanet host stars through transit spectroscopy,” *Astronomy & Astrophysics*, vol. 691, A141, Nov. 2024, ISSN: 1432-0746. [DOI: 10.1051/0004-6361/202450624](#).
- 15 **Damasceno, Y. C.**, J. V. Seidel, **B. Prinoth**, A. Psaridi, et al., “The atmospheric composition of the ultra-hot Jupiter WASP-178 b observed with ESPRESSO,” *Astronomy & Astrophysics*, vol. 689, A54, Sep. 2024, ISSN: 1432-0746. [DOI: 10.1051/0004-6361/202450119](#).
- 16 S. Pelletier, B. Benneke, Y. Chachan, L. Bazinet, et al., “CRIRES+ and ESPRESSO Reveal an Atmosphere Enriched in Volatiles Relative to Refractories on the Ultrahot Jupiter WASP-121b,” *The Astronomical Journal*, vol. 169, no. 1, p. 10, Dec. 2024, ISSN: 1538-3881. [DOI: 10.3847/1538-3881/ad8b28](#).
- 17 N. W. Borsato, H. J. Hoeijmakers, **B. Prinoth**, B. Thorsbro, et al., “The Mantis Network: III. Expanding the limits of chemical searches within ultra-hot Jupiters: New detections of CaI, VI, TiI, CrI, NiI, SrII, BaII, and TbII in KELT-9 b,” *Astronomy & Astrophysics*, vol. 673, A158, May 2023, ISSN: 1432-0746. [DOI: 10.1051/0004-6361/202245121](#).
- 18 D. Kitzmann, H. J. Hoeijmakers, S. L. Grimm, N. W. Borsato, A. Lueber, and **B. Prinoth**, “The Mantis network: A standard grid of templates and masks for cross-correlation analyses of ultra-hot Jupiter transmission spectra,” *Astronomy & Astrophysics*, vol. 669, A113, Jan. 2023, ISSN: 1432-0746. [DOI: 10.1051/0004-6361/202142969](#).
- 19 S. Pelletier, B. Benneke, M. Ali-Dib, **B. Prinoth**, et al., “Vanadium oxide and a sharp onset of cold-trapping on a giant exoplanet,” *Nature*, vol. 619, no. 7970, pp. 491–494, Jun. 2023, ISSN: 1476-4687. [DOI: 10.1038/s41586-023-06134-0](#).
- 20 E. K. H. Lee, **B. Prinoth**, D. Kitzmann, S.-M. Tsai, et al., “The mantis network <tt>ii</tt>: Examining the 3d high-resolution observable properties of the uhjs WASP-121b and WASP-189b through gcm modelling,” *Monthly Notices of the Royal Astronomical Society*, vol. 517, no. 1, pp. 240–256, Aug. 2022, ISSN: 1365-2966. [DOI: 10.1093/mnras/stac2246](#).

21 E. K. H. Lee, J. P. Wardenier, **B. Prinoth**, V. Parmentier, et al., “3D Radiative Transfer for Exoplanet Atmospheres. gCMCRT: A GPU-accelerated MCRT Code,” *The Astrophysical Journal*, vol. 929, no. 2, p. 180, Apr. 2022, ISSN: 1538-4357. [DOI: 10.3847/1538-4357/ac61d6](https://doi.org/10.3847/1538-4357/ac61d6).

CODES

-  **tayph**, an open-source package for cross-correlation analysis of high resolution spectroscopy, contributor; Zenodo link: <https://doi.org/10.5281/zenodo.11506198>
-  **ExoAtmoSim**, an open-source package for predicting cross-correlation detections; developer; Zenodo link: <https://zenodo.org/records/11505486>
-  **StarRotator**, an open-source package for modelling the Rossiter–McLaughlin effect during exoplanet transits, contributor; Zenodo link: <https://doi.org/10.5281/zenodo.13789135>

SUPERVISION

- 2026 (upcoming)
 - **Co-supervisor of Klaudia Jaworska** (Ph.D. at Lund University) - Working on high-resolution spectroscopy of exoplanet atmospheres
- since 2025
 - **Co-supervisor of Sydney Vach** (ESO studentship, ESO Garching) - Working on young planetary atmospheres
- 2025
 - **Co-supervisor of Alex Ståhlén** (B.Sc. thesis, Lund University) - Project on characterising the WASP-121 b system using transit light curves and radial velocity measurements.
- 2023
 - **Co-supervisor of Yuri Carrilho Damasceno** (M.Sc. thesis, ESO Vitacura internship) Project published in *A&A* (Damasceno, Seidel, Prinoth et al. 2024). *Now PhD student in Astronomy at the University of Porto*. Awarded **Europlanet Early Career Prize for Best Iberian M.Sc. Thesis (2024)** — [link](#).
- 2022–2023
 - **Co-supervisor of Klaudia Jaworska** (B.Sc. thesis, Lund University) *Now M.Sc. student in Astronomy at Lund University*. Awarded the **Rosa Tengborg Prize (Swedish Astronomical Society, 500€)** — [link](#). Project published in *A&A* (Hoeijmakers, Jaworska & Prinoth, 2024).

RESPONSIBILITIES REGARDING RESEARCH ACTIVITIES

- 2026
 - **Member of the Local Organising Committee (LOC), VLT2030 Conference** Garching b. München, Germany, January 2026
 - **Proposer, main organiser and head of the LOC, Bridging Horizons Conference** Garching b. München, November 2026 (see also AWARDS AND GRANTS)
- since 2025
 - **Lead of ELT Working Group on Advanced Signal Processing of Exoplanet Spectroscopy (ASPEX)** <https://elt.eso.org/about/workinggroups/>
- 2025–2026
 - **Co-organiser and project supervisor, ESO Summer Research Programme (8th edition)** Garching b. München, Summer 2026 (June–July, 6 weeks)
- 2025
 - **Scientific assistant for ESO Observing Programme Committee (OPC), P117** Served on three review panels
 - **Master’s thesis examiner** for Kira Lund *The cosmic journey of a dust grain*, supervised by Oscar Agertz and Anders Johansen, defended in 2025
 - **Postdoctoral hiring committees** Participated in three postdoc recruitment processes at Lund University (two searches for Dr. Jens Hoeijmakers; one for Dr. Alexander Mustill)
- since 2023
 - **Regular reviewer for AJ, PASP, and MNRAS**
- 2021–2022
 - **Organiser and host, Kallén Seminars for Young Astronomers**, Lund Observatory Led a seminar series to enhance presentation and communication skills among early-career researchers
- 2020
 - **Selection committee, Professorship appointment**, Department of Physics, ETH Zürich
 - **Student representative, Assistant Professorship faculty search**, Department of Physics, ETH Zürich

RESPONSIBILITIES REGARDING TEACHING ACTIVITIES

- 2026 ○ **Lecturer at ESO Summer Research Programme 2026** — Lecture on exoplanets for the participants of the 8th edition of this programme.
- 2024 ○ **Co-organiser, Python Coffee Series, ESO Chile** — Established an informal discussion and training space to exchange computational tools and foster peer-driven learning among researchers.
- 2022–2025 ○ **Teaching Assistant, ASTB01 — Introduction to Astrophysics**
Department of Astronomy and Theoretical Physics, Lund University
- 2022 ○ **Co-evaluator for high-school research project** — Provided assessment and feedback for Iza Stand's project "Moving everyday life into outer space (*Förflyttning av vardagslivet till yttre rymden*)" (Swedish).
- 2021–2023 ○ **Teaching Assistant, FYSB21 — Mathematical Methods for Waves, Vibrations and Diffusion**
Department of Astronomy and Theoretical Physics & Department of Physics, Lund University
(Apr–Jul 2021; Nov 2021–Jan 2022; Apr–Jul 2022; Nov 2022–Jan 2023)
- 2020–2025 ○ **Teaching Assistant, ASTC01 — Astrobiology**
Department of Astronomy and Theoretical Physics & Department of Physics, Lund University
- 2020 ○ **Teaching Assistant, Physics II**
Institute for Particle Physics and Astrophysics, ETH Zürich, Feb–Aug 2020
- 2018–2020 ○ **Teaching Assistant, Physics I & II**
Institute for Particle Physics and Astrophysics, ETH Zürich, Sep 2018–Jan 2020
- 2016–2020 ○ **Student representative and president of the student association** — Served in the teaching committees (*Unterrichtskommission / GemUK*) of the Departments of Mathematics and Physics, ETH Zürich.

AWARDS AND GRANTS

- 2025 ○ **SSDF 2026**
Science Support Discretionary Fund of ESO's Director for Science for hosting a 3-month stay of a student at ESO in 2026 (6800 EUR)
- **ESO Workshop Grant**
European Southern Observatory for hosting a workshop at ESO during 2026 (5000 EUR)
- 2024 ○ **Research Grant**
Royal Physiographic Society of Lund, Walter Gyllenberg Foundation (SEK 46 000, approx. 4200 EUR)
- 2022 ○ **Research Grant**
Royal Physiographic Society of Lund, Walter Gyllenberg Foundation (SEK 56 063, approx. 5100 EUR)
- **Seminar Grant**
Royal Physiographic Society of Lund, Gunnar & Gunnel Källén's Memorial Fund (SEK 50 000, approx. 4600 EUR)
- 2021 ○ **Research Grant**
Royal Physiographic Society of Lund, Walter Gyllenberg Foundation (SEK 100 000, approx. 9200 EUR)
- 2020 ○ **Research Grant**
Royal Physiographic Society of Lund, Walter Gyllenberg Foundation (SEK 105 000, approx. 9700 EUR)
- **VMP Assistentenaward: Award for excellent teaching**
Association of mathematics and physics students at ETH Zürich (VMP)

OBSERVATIONAL EXPERIENCE AND PROPOSALS

- Principal Investigator ○ 115.2857, ESO P116, VLT, CRIRES+, 5 nights (distributed over 8 transits)
23A036 (rescheduling), OPTICON 2023B, Southern African Large Telescope, HRS, 5 hours
23A036, OPTICON 2023A, Southern African Large Telescope, HRS, 5 hours
22A024, OPTICON 2022A, Southern African Large Telescope, HRS, 5 hours
107.22QF, ESO SC107, VLT, ESPRESSO, 5.5 hours

OBSERVATIONAL EXPERIENCE AND PROPOSALS (continued)

- Co-Investigator
- 108.22CZ, ESO P108, VLT, CRILES+, 11 hours (PI: Allart)
 - 108.22AN, ESO P108, VLT, CRILES+, 6.4 hours (PI: Borsato)
 - 108.22BR, ESO P108, VLT, CRILES+, 5x0.4 nights (PI: Hoeijmakers)
 - 109.236F, ESO P109, VLT, CRILES+, 4 hours (PI: Hoeijmakers)
 - 109.23D2, ESO P109, VLT, CRILES+, 0.5 nights (PI: Thorsbro)
 - 111.251V, ESO P111, VLT, CRILES+, 0.5 nights (PI: Hoeijmakers)
 - 112.25NQ, ESO P112, VLT, CRILES+, 0.75 nights (PI: Borsato)
 - 65-001, NOT Cycle 65, Nordic Optical Telescope, FIES, 2 transits (PI: Johansen)
 - 64-021, NOT Cycle 64, Nordic Optical Telescope, FIES, 2 transits (PI: Johansen)
 - Keck, HIRES (PI: Borsato)
 - Gemini-North, MAROON-X, 2 transits (PI: Pelletier)
 - ID 4195, JWST Cycle 2 (PI: Fisher); ID 4126, JWST Cycle 2 (PI: Fisher); ID 3969, JWST Cycle 2 (PIs: Espinoza, Powell); ID 3730, JWST Cycle 2 (PIs: Diamond-Lowe, Mendonça); ID 3279, JWST Cycle 2 (PI: Hoeijmakers); ID 7675, JWST Cycle 4 (PI: August)

SEMINARS, TALKS AND PRESENTATIONS

- 2026
- **The future of high-resolution exoplanet studies in the ELT era**
HoRS3S conference, Granada (invited keynote)
- 2025
- **Caught in the act: Observing an eccentric gas giant during periastron**
USM exoplanet observers meeting (invited seminar)
 - **Pushing the limits: From Ultra-Hot Jupiters to Warm Gas Giants**
CSH/WP seminar at the University of Bern, Switzerland (invited seminar)
https://www.space.unibe.ch/studies/division_seminars_wp_csh_colloquium/index_eng.html
 - **Right Time, Right Place: Probing Atmospheric C/O in Eccentric Warm Giants with CRILES+**
Planet formation and exoplanets in the ELT era (ExoELT), Garching, Germany (contributed conference talk)
<https://www.eso.org/sci/meetings/2025/exo-elt/programme.html>
 - **Hidden in plain sight: Using ESPRESSO's superpower to detect depleted titanium in WASP-121 b**
Exoclimes Conference, Montréal, Canada (contributed talk)
<https://exoclimes.org/program.html>
 - **Hidden in plain sight: Using ESPRESSO's superpower to detect depleted titanium in WASP-121 b**
Astrophysics seminar in Lund (invited seminar)
<https://www.astro.lu.se/calendar/seminar-bibiana-prinoth-topic-titanium-atmosphere-exoplanet>
 - **Titanium chemistry of WASP-121 b with ESPRESSO in 4-UT mode**
TOP seminar in Nice (invited seminar)
- 2024
- **Cross-correlation challenges in the ANDES era: Observing warm Jupiters on eccentric orbits**
Two HoRSEs: High-Resolution Exoplanet and Stellar Characterization Today and in the ELT Era, Berlin, Germany, July 15-19, 2024 (contributed talk)
<https://sites.google.com/view/two-horses/>
 - **Revealing the Formation History of Ultra-Hot Jupiters through Refractory-to-Volatile Elemental Ratios: Benchmarking with WASP-189 b**
Challenge Accepted: Linking Planet Formation with Present-Day Atmospheres, Heidelberg, Germany, July 8-12, 2024 (contributed talk)
<https://the-great-link.github.io/>
 - **Cross-correlation challenges in the ANDES era: Observing warm Jupiters on eccentric orbits**
ESO Seminar, ESO Garching, Germany, June 11, 2024
 - **Time-resolved transmission spectroscopy of the ultra-hot Jupiter WASP-189 b**
Exoplanets 5, Leiden, Netherlands, June 17-21, 2024 (poster presentation)
<https://exoplanets5.org/>
 - **Exploring the Limits of Atmospheric Studies on Warm Jupiters: The Role of System Architectures**
Seminar at Universidad Adolfo Ibañez, Santiago, Chile, April 17, 2024
 - **Exploring Extreme Worlds: Insights on Ultra-hot Jupiters from WASP-189 b**
Astro Seminar, American Museum of Natural History, New York, April 9, 2024
 - **Time-resolved transmission spectroscopy of the ultra-hot Jupiter WASP-189 b**
Extreme Solar Systems V, Christchurch, New Zealand, March 16-21, 2024 (poster presentation)
<https://aas.org/meetings/exssV>





SEMINARS, TALKS AND PRESENTATIONS (continued)

- **Exploring Extreme Worlds: Insights on Ultra-hot Jupiters from WASP-189 b**
MQAAAstro Seminar, Macquarie University, Sydney, Australia, March 15, 2024
- **Exploring Extreme Worlds: Insights on Ultra-hot Jupiters from WASP-189 b**
Astro Seminar, University of New South Wales, Sydney, Australia, March 13, 2024
- 2023 ○ **Time-resolved transmission spectroscopy of the ultra-hot Jupiter WASP-189 b**
OPAGA, Puerto Natales, December 4 - 8, 2023 (contributed talk)
<https://astrofiscamas.cl/opaga/>
- **Time-resolved transmission spectroscopy of the ultra-hot Jupiter WASP-189 b**
Seminar at Universidad Adolfo Ibañez, Santiago, Chile, October 24, 2023
- **Time-resolved transmission spectroscopy of the ultra-hot Jupiter WASP-189 b**
Thirty-Minutes-Talk ESO Chile, October 18, 2023
- **Time-resolved transmission spectroscopy of the ultra-hot Jupiter WASP-189 b**
DPS-EPSC, October 1-6, 2023 (remote attendance, contributed talk)
<https://aas.org/meetings/dps55>
- **Exploring the atmosphere of the ultra-hot Jupiter WASP-189 b**
Stockholm University Astronomy Departmental Seminar, June 2, 2023
<https://www.albanova.se/event/astronomy-departmental-seminar-bibiana-prinoth-lund/>
- **Through the telescope: Exploring the atmosphere of the ultra-hot Jupiter WASP-189 b**
SPI-MAX Astrophysics Seminar, May 10, 2023
<https://www.physics.ox.ac.uk/events/spi-max-bibiana-prinoth>
- **Exploring the atmosphere of the ultra-hot Jupiter WASP-189 b**
Helsinki Astrophysics Seminar, March 2023 (online)
<https://wiki.helsinki.fi/display/astjourn/Astrophysics+seminar>
- 2022 ○ **What else is there to see? Revisiting the transmission spectrum of WASP-189 b**
Astronomdagarna, Oct 4-6, 2022 (contributed talk)
- **Titanium oxide and chemical inhomogeneity in the atmosphere of WASP-189 b**
EAS 2022, Jun 27 - Jul 2, 2022 (poster presentation)
- **Titanium oxide and chemical inhomogeneity in the atmosphere of WASP-189 b**
Exoplanets IV, May 1-6, 2022 (poster presentation)
- **Revealing dynamics, atmospheric stratification and chemical inhomogeneities in the atmosphere of WASP-189 b**
Uppsala University Astronomy/Space physics seminar in February 2022 (invited seminar)
- 2021 ○ **Revealing Dynamics, Three-Dimensional Stratification, and Chemical Inhomogeneities in the Atmosphere of an Ultra-Hot Jupiter**
Astronomdagarna, Oct 22-23, 2021 (contributed talk)
<https://indico.cern.ch/event/1016890/contributions/4498334/>
- **Interpreting Detections of Metals in the Transmission Spectra of Ultra-hot Jupiters**
ESO Atmospheres Conference & Workshop, Aug 23-27, 2021 (contributed talk)
<https://eso.org/sci/meetings/2021/Atmo2021/program/Prinoth.html>

VOLUNTARY WORK IN COMMITTEES AND BOARDS

- 2024 – 2025  **Equal Opportunity, Diversity and Inclusion Committee**
Lund University, Department of Physics, Sweden, Sep 2024 – Jul 2025
- 2023 – 2025  **Student Council for Physics Doctoral Students**
Lund University, Department of Physics, Sweden, Jun 2023 – Jun 2025
- 2022  **Founding Member of SENECA – The Swedish Network for Early Career Astronomers**
<https://seneca-astro.github.io>
- 2022 – 2023  **NDR Working Committee Member**
Naturvetenskapliga Doktorandrådet (NDR), Jul 2022 – Jun 2023
- 2021 – 2024  **PhD representative in the Research Education Board**
Naturvetenskapliga Doktorandrådet (NDR), Jan 2021 – June 2023
- 2021 – 2022  **NDR Chair**
Naturvetenskapliga Doktorandrådet (NDR), Jul 2021 – Jun 2022
- 2018 – 2020  **Co-Secretary General of IDEALiStiC**
IDEA League Students in Conference, Feb 2018 – Oct 2020

VOLUNTARY WORK IN COMMITTEES AND BOARDS (continued)

- 2018 – 2019  **President of the Council for Student Associations**
Verband der Studierenden an der ETH Zürich, Sep 2018 - Feb 2019
- 2017 – 2018  **Board member for communication at VSETH**
Verband der Studierenden an der ETH Zürich, Sep 2017 - Mar 2018
- 2016 – 2017  **President of VMP**
Verein der Mathematik- und Physikstudierenden an der ETH Zürich, Oct 2016 - Oct 2017
- 2015 – 2016  **Founding member and president of [phimale]**
Verein der Mathematik- und Physikstudierenden an der ETH Zürich, Oct 2015 - Oct 2016

OUTREACH ACTIVITIES

- 2025  **Pint of Science, Sweden**
Outreach talk
<https://pintofscience.se/event/otherworldly-adventures>
- 2024  **Astronomical Youth district conference in Lund**
Talks about exoplanets and my way into academia as a first-gen for high-school students
-  **Culture Night**
Public observing night during Kulturnatten in Lund
<https://www.lu.se/node/35015#eng>
- 2023  **Knut Lundmark-dagarna at Lund University**
Lectures about exoplanets for high-school students organised by Astronomisk Ungdom
<https://www.astronomiskungdom.se/knut-lundmark-dagarna>
-  **Monthly meeting of ASTB at Lund University**
"Genom teleskopet: utforskning av andra världars atmosfärer", talk for the monthly meeting of the astronomiska sällskap Tycho Brahe
<https://www.astb.se/index.php/aktiviteter/m-och-frag-mainmenu-38/600-utforskningen-av-andra-varldars-atmosfarer>
-  **NMT Days at Lund University**
Lectures about exoplanets for high-school students during the NMT (naturvetenskap, medicin, teknik) days at Lund University
<https://www.nmt.lu.se/app/?nav>
- 2022  **Social Media Internship at the Europlanet Science Congress**
Europlanet Science Congress in Granada, Spain, Sep 18 – 23, 2022
-  **ALVA at Lund University**
Outreach talk to the astronomy club at Lund University about "The planets beyond our solar system"
<https://www.astro.lu.se/ALVA>
-  **The Interplanetary Podcast**
Guest on a podcast, talking about Ultra-hot Jupiters
<https://www.interplanetary.org.uk/>
-  **NMT Days at Lund University**
Lectures about exoplanets for high-school students during the NMT (naturvetenskap, medicin, teknik) days at Lund University
<https://www.nmt.lu.se/app/?nav>
- 2021  **The Meridian Podcast**
Field reporter on the podcast of Lund Observatory during season 2
<https://www.astro.lu.se/TheMeridian>
-  **Outreach Talk at Polhemskola, Lund**
Invited talk at a high school in Lund
<https://www.astro.lu.se/TheMeridian>
- 2021 – present  **Skype A Scientist**
Talks to several school classes
<https://www.skypeascientist.com/>
- 2020 – present  **Outreach activities at the telescope**
Visits to our telescopes with school classes and interested groups, public observing