

Curriculum Vitae

[ORCID](#) | [Google Scholar](#) | [ADS/NASA](#) | [✉ jaquirola@uc.cl](mailto:jaquirola@uc.cl) |

CONTACT INFORMATION

Name: Jonathan Alexander Quirola Vásquez
Civil status: Married
Birth date and place: 26 November 1990, Quito, Ecuador
Address: Dorpsstraat 132, Renkum, The Netherlands/Av 12 de Octubre and Colón, Quito, Ecuador.

EDUCATION

2018 - 2023 Ph.D. in Astrophysics, *Summa cum laude*, Pontificia Universidad Católica de Chile
2016 - 2018 MSc. in Astrophysics, *Summa cum laude*, Pontificia Universidad Católica de Chile
2009 - 2015 BSc. in Physics, *Cum laude*, Escuela Politécnica Nacional, Ecuador

CURRENT POSITION

1/5/2024 - present Postdoc position, Radboud University, The Netherlands, Advisor: Prof. P. Jonker

PROFESSIONAL HISTORY

1/9/2022 - 30/4/2024 Researcher, Astronomical Observatory of Quito-Escuela Politécnica Nacional, Ecuador
10/7/2023 - 30/4/2024 Postdoc position, Pontificia Universidad Católica de Chile. Advisor: Prof. F. Bauer
1/3/2018 - 7/7/2023 Research Assistant, Pontificia Universidad Católica de Chile. Advisor: Prof. F. Bauer
20/12/2020 - 27/1/2022 Research Assistant, Radboud University. Advisor: Prof. P. Jonker
1/3/2016 - 28/2/2018 Research Assistant, Pontificia Universidad Católica de Chile. Advisor: Prof. F. Bauer
1/11/2014. - 28/2/2016. Research Assistant, Escuela Politécnica Nacional, Ecuador. Advisor: Prof. N. Vásquez

PROFESSIONAL SERVICE

2024 Aug. - Member, *Euclid* mission, transients & supernovae group
2024 May. - Member, *Einstein Probe* mission
2024 Feb. - Member, International Astronomical Union
2022 Feb. - Member, Fast X-ray transients Group, the Advanced X-ray Imaging Satellite (*AXIS*) mission

OBSERVING EXPERIENCE AND/OR ACCEPTED PROPOSALS¹

2025B (4.6 hours): Fast Turnaround *GEMINI* South, GMOS, F2 instruments (Bauer-PI, **Quirola co-PI**)
2025B (40 hours): *GTC*, OSIRIS/HiPERCAM/EMIR instruments (Jonker-PI, Quirola-Vásquez co-PI)
2025 (4 nights): NTT telescope, EFOCS instrument, ePPESTO collaboration (Cosimo-PI)
2025 (8.5 hours): Fast Turnaround *GEMINI* South, GMOS, F2 instruments (Bauer-PI, **Quirola co-PI**)
2024 (10.9 hours): Fast Turnaround *GEMINI* Nort/South, GMOS, F2, GNIRS instruments (Bauer-PI, **Quirola co-PI**)

2025 (80 ksec): *XMM-Newton*, JWST (4 hours), and VLT (2 hours) (Jonker PI, Quirola-Vásquez co-PI)
2024B (20 ks): *Chandra* telescope ToO (Jonker PI, Quirola-Vásquez co-PI)
2024B (8 hours): *SOAR* telescope ToO (Bauer PI, **Quirola-Vásquez co-PI**)
2024B (8.0 hours): Fast Turnaround *GEMINI* Nort/South, GMOS, F2, GNIRS instruments (Bauer-PI, **Quirola co-PI**)

2024B (5.3 hours): *GEMINI-North*, GMOS instrument (Bauer-PI, **Quirola-Vásquez co-PI**)
2024B (12.8 hours): *GEMINI-South*, GMOS/F2 instruments, ToO (Bauer-PI, **Quirola-Vásquez co-PI**)
2024B (36 hours): *GTC*, OSIRIS/HiPERCAM/EMIR instruments (Jonker-PI, Quirola-Vásquez co-PI)
2024 (12 ksec): *Swift*-XRT telescope ToO (Jonker PI, Quirola-Vásquez co-PI)
2024A (6 hours): *VLT* telescope ToO (Jonker PI, Quirola-Vásquez co-PI)
2024A (8 hours): *SOAR* telescope ToO (Bauer PI, **Quirola-Vásquez co-PI**)
2024A (40 hours): *GTC*, OSIRIS/HiPERCAM/EMIR instruments (Jonker-PI, Quirola-Vásquez co-PI)
2024 (8 hours): *MeerKAT* Radio telescope (Bright PI, Quirola-Vásquez co-PI)
2023B (2 hours): *GEMINI-South* telescope, GMOS instrument (Olivares PI, Quirola-Vásquez co-PI)
2023A (8 nights): *BlackGEM* telescope, La Silla (visitor observer)

¹Highlighted the proposal where I contributed significantly.

2023 (100 ksec):	<i>XMM-Newton</i> and VLT (Jonker PI, Quirola–Vásquez co-PI)
2022B (0.5 night):	<i>Baade</i> 6.5m telescope, FourStar instrument (Quirola–Vásquez PI)
2022B (4.5 hours):	<i>GTC</i> , OSIRIS instrument (Torres-PI, Quirola–Vásquez co-PI)
2022A (4 nights):	<i>Baade</i> 6.5m telescope, FourStar, FIRE and MagE instruments (Quirola–Vásquez PI)
2022A (12 hours):	<i>VLT</i> -Telescope, MUSE (Eappachen PI, Quirola–Vásquez co-PI)
2021B (12 hours):	<i>GEMINI-South</i> Telescope, GMOS instrument (Quirola–Vásquez PI)
2021B (2.5 hours):	<i>GEMINI-South</i> Telescope, Fast Turnaround, GMOS instrument (Bauer PI, Quirola–Vásquez co-PI ; CANCEL because of weather conditions)
2020B (13 hours):	<i>GEMINI-South</i> Telescope, F2 instrument (Quirola–Vásquez PI ; CANCEL by COVID-19)
2020A (2 nights):	<i>MPG/ESO 2.2m</i> Telescope, GROND instrument (Quirola–Vásquez PI)
2020A (6 hours):	<i>GEMINI-South</i> Telescope, GMOS instrument (Quirola–Vásquez PI)
2020A (5 hours):	<i>VLT</i> -Telescope, XSHOOTER instrument (Quirola–Vásquez PI)
2018B (1 night):	<i>Baade</i> 6.5m telescope, MagE instrument (Chilingarian PI)
2018B (1 night):	<i>Baade</i> 6.5m Telescope, MagE instrument (Chilingarian PI)
2018A (1 night):	<i>Baade</i> 6.5m Telescope, MagE instrument (Chilingarian PI)

PAPERS/PROPOSALS REFEREE

2025B	<i>Gemini-North/South</i> telescope, Fast Turnaround proposals
2025A	<i>Gemini-North/South</i> telescope, Fast Turnaround proposals
2024B	<i>Gemini-North/South</i> telescope, Fast Turnaround proposals
2024	<i>The Astrophysical Journal</i>
2024B	<i>Gemini-South</i> telescope, Fast Turnaround proposals
2023	<i>Neil Gehrels Swift Observatory</i> , Cycle 20
2023	<i>La Granja</i> , revista de Ciencias de la Vida
2023B	<i>Gemini-South</i> telescope, Fast Turnaround proposals
2021B	<i>Gemini-South</i> telescope, Fast Turnaround proposals
2020B	<i>Gemini-South</i> telescope, Fast Turnaround proposals

REFEREED PUBLICATIONS

0. 2 additional first-author (corresponding author) papers in preparation + 2 co-author papers submitted.
1. Jonker et al. (2025), *EP 250207b is not a collapsar fast X-ray transient. Is it due to a binary compact object merger?*, Monthly Notices of the Royal Astronomical Society (submitted; [arxiv](#)).
2. **Quirola–Vásquez J.** et al. (2025), *Unveiling the nature of the Einstein Probe transient EP 241021a*, Monthly Notices of the Royal Astronomical Society (submitted).
3. Levan et al. (2025), *The day-long, repeating GRB 250702BDE / EP250702a: A unique extragalactic transient*, ApJL (accepted; [arxiv](#)).
4. Biswas et al. (2025), *Comparing the Space Densities of Millisecond-Spin Magnetars and Fast X-Ray Transients*, A&A (accepted; [arxiv](#)).
5. Dai, **Quirola–Vásquez J.** et al. (2025), *An energetic dirty fireball detected in soft X-rays*, Science (submitted).
6. Rastinejad et al. (2025), *EP 250108a/SN 2025kg: Observations of the most nearby Broad-Line Type Ic Supernova following an Einstein Probe Fast X-ray Transient*, ApJL (accepted; [arxiv](#)).
7. Eyles-Ferris et al. (2025), *The kangaroo’s first hop: the early fast cooling phase of EP250108a/SN 2025kg*, ApJL (submitted; [arxiv](#)).
8. van Jiang J. et al. (2025), *EP240801a/XRF 240801B: An X-ray Flash Detected by the Einstein Probe and Implications of its Multiband Afterglow*, Astrophysical Journal (accepted; [arxiv](#)).
9. Levan A. et al. (2025), *The fast X-ray transient EP240315a: a $z \sim 5$ gamma-ray burst in a Lyman continuum leaking galaxy*, Nature (accepted, [arxiv](#)).
10. van Dalen J. et al. (2025), *The Einstein Probe transient EP240414a: Linking Fast X-ray Transients, Gamma-ray Bursts and Luminous Fast Blue Optical Transients*, Astronomy & Astrophysics (accepted; [arxiv](#)).

11. Liu Y. et al. (2025), *Soft X-ray prompt emission from a high-redshift gamma-ray burst EP240315a*, Nature (accepted, [arxiv](#)).
12. Quirola-Vásquez J. et al. (2025), *New JWST redshifts for the host galaxies of CDF-S XT1 and XT2: understanding their nature*, Astronomy & Astrophysics (accepted; [arxiv](#)).
13. Inkenhaag A. et al. (2024), *Redshifts of candidate host galaxies of four fast X-ray transients using VLT/MUSE*, Astronomy & Astrophysics ([arxiv](#)).
14. Wichern H. C. I. et al. (2024), *Investigating the off-axis GRB afterglow scenario for extragalactic fast X-ray transients*, Astronomy & Astrophysics ([arxiv](#)).
15. Quirola-Vásquez J. et al. (2024), *Probing a Magnetar Origin for the population of Extragalactic Fast X-ray Transients detected by Chandra*, Astronomy & Astrophysics ([arxiv](#)).
16. Eappachen, D. et al. (2024), *XMM-Newton-discovered Fast X-ray Transients: Host galaxies and limits on contemporaneous detections of optical counterparts*, Monthly Notices of the Royal Astronomical Society (published; [arxiv](#)).
17. The AXIS Time-Domain and Multi-Messenger Science Working Group (2023), *Prospects for Time-Domain and Multi-Messenger Science with AXIS*, The Universe (accepted; [arxiv](#)).
18. Quirola-Vásquez J. et al. (2023), *Extragalactic fast X-ray transient candidates discovered by Chandra (2014-2022)*, Astronomy & Astrophysics, 675, 43 ([arxiv](#)).
19. Agudo, I. et al. (2023), *Panning for gold, but finding helium: discovery of the ultra-stripped supernova SN2019wxt from gravitational-wave follow-up observations*, Astronomy & Astrophysics, 675, 34 ([arxiv](#)).
20. Eappachen, D. et al. (2023), *The Fast X-ray Transient XRT 210423 and its Host Galaxy*, The Astrophysical Journal, 948, 91 ([arxiv](#)).
21. Eappachen, D. et al. (2022), *Probing for the host galaxies of the fast X-ray transients XRT 000519 and XRT 110103*, Monthly Notices of the Royal Astronomical Society, 514, 302 ([arxiv](#)).
22. Quirola-Vásquez J. et al. (2022), *Extragalactic fast X-ray transient candidates discovered by Chandra (2000-2014)*, Astronomy & Astrophysics, 663, A168 ([arxiv](#)).
23. Tucker, D. L. et al. (2022), *SOAR/Goodman Spectroscopic Assessment of Candidate Counterparts of the LIGO/Virgo Event GW190814*, The Astrophysical Journal, 929, 115, [arxiv](#)
24. Kilpatrick, Charles D. et al. (2021), *The Gravity Collective: A Search for the Electromagnetic Counterpart to the Neutron Star-Black Hole Merger GW190814*, The Astrophysical Journal, 923, 258, [arxiv](#)
25. Ackley, K. et al. (2020), *Observational constraints on the optical and near-infrared emission from the neutron star-black hole binary merger candidate S190814bv*, Astronomy & Astrophysics, 643, A113, [arxiv](#)
26. Garcia, A. et al. (2020), *A DESGW Search for the Electromagnetic Counterpart to the LIGO/Virgo Gravitational-wave Binary Neutron Star Merger Candidate S190510g*, The Astrophysical Journal, 903, 75, [arxiv](#)
27. Morgan, R. et al. (2020), *Constraints on the Physical Properties of GW190814 through Simulations Based on DECam Follow-up Observations by the Dark Energy Survey*, The Astrophysical Journal, 901, 83, [arxiv](#)
28. Quirola-Vásquez J. et al. (2019), *The exceptional X-ray evolution of SN 1996cr in high resolution*, Monthly Notices of the Royal Astronomical Society, 490, 4536 ([arxiv](#)).
29. Quirola-Vásquez, J. et al. (2019), *Spectropolarimetry of SN 2010jl*, Boletín de la Asociación Argentina de Astronomía La Plata Argentina, 61, 90 ([link](#))
30. Quirola-Vásquez, J. & Vásquez, N. (2015), *Study of pulse structure and radiative mechanisms associations of long GRBs at $z \sim 1$* , Extragalactic Jets from Every Angle, 313, 394 ([link](#))

SELECTED TALKS

- 2025 March: ESLAB Euclid symposium 2025 (The Netherlands), “The role of Euclid mission for the detection of host galaxies of Fast X-ray Transients”
- 2025 January: II Simposio de Física Teórica y Computacional (Ecuador), “The new era of extragalactic Fast X-ray Transients”
- 2024 October: V Congreso Internacional de Física CIF 2024 (online), “The new era of extragalactic Fast X-ray Transients”
- 2024 October: High Energy Astrophysics and Cosmology in the era of all-sky surveys (Armenia), “The new era of extragalactic Fast X-ray Transients”
- 2024 July: European Astronomical Society meeting 2024 (Italy), “A new population of extragalactic fast X-ray transients”
- 2024 March: AXIS seminar series (online), “Fast X-ray Transients: current status and future”
- 2023 October: XVII Encuentro de Física (Ecuador), “Multi-epoch spectropolarimetry of type IIIn SN 2010jl”
- 2023 August: IX School of Astronomy and Astrophysics (Ecuador), “Multi-messenger Astronomy”
- 2023 March: 20th Divisional Meeting of the High Energy Astrophysics Division (online), “Extragalactic Fast X-ray Transient Candidates Discovered inside the CSC2”
- 2023 February: Max Planck Institute for Extraterrestrial Physics, High energy group (online), “Extragalactic Fast X-ray Transient Candidates Discovered by Chandra”
- 2023 January: Yachay Tech (Ecuador), “Extragalactic Fast X-ray Transient Candidates Discovered inside the CSC2”
- 2022 November: SuperVirtual 2022 (online), “Extragalactic Fast X-ray Transient Candidates Discovered by *Chandra*”
- 2022 November: Radboud University, Fast X-ray Transient meeting (online), “Extragalactic Fast X-ray Transient Candidates Discovered by *Chandra*”
- 2022 April: Universidad San Francisco (Ecuador), “Extragalactic Fast X-ray Transient Candidates Discovered by *Chandra*”
- 2022 February: University of California–Berkeley (online), UCB-wide Explosive Astro meeting, “Extragalactic Fast X-ray Transient Candidates Discovered by *Chandra*”
- 2022 January: SRON Netherlands Institute for Space Research (online), 50 years astronomical X-ray spectroscopy in the Netherlands, “The Exceptional X-ray Evolution of SN1996cr in High Resolution”
- 2021 July: Sixteenth Marcel Grossmann Meeting (online), “Extragalactic Fast X-ray Transient Candidates Discovered by *Chandra*”
- 2020 October: *Chandra* X-ray Center (online), *Chandra* Frontiers in Time-Domain Science, “The exceptional X-ray evolution of SN 1996cr in high resolution”
- 2020 October: *Chandra* X-ray Center (online), *Chandra* Frontiers in Time-Domain Science, “Extragalactic Fast X-ray Transient Candidates Hidden in the *Chandra* Source Catalog”
- 2019 December: University of Portsmouth (UK), 30th Texas Symposium on Relativistic Astrophysics, “X-ray transients hidden in the *Chandra* X-ray Catalogs”
- 2019 December: Escuela Politécnica Nacional, Ecuador, XVI Encuentro de Física: Desafíos Computacionales en la Física Contemporánea, “Multi-messenger astronomy”
- 2019 June: Universidad Andres Bello (Chile), Supernovae-transients mini-workshop Japan-Chile, “Ongoing projects: merger of neutron stars in the *Chandra* catalog, SN1996cr and SN2010jl”
- 2018 October: Second Binational Meeting AAA-SOCHIAS (Chile), “The Exceptional X-ray Evolution of SN 1996cr in High Resolution”
- 2018 May: Institut de recherche en astrophysique et planétologie (France), Treasures hidden in high energy catalogues, “The exceptional X-ray evolution of SN1996cr in high resolution”
- 2018 April: European South Observatory (Chile), South American Supernovae meeting, “High resolution X-ray spectroscopy of SN1996cr”
- 2018 January: Millenium Institute of Astrophysics (Chile), IV Workshop MAS, “SN 1996cr: unprecedented supernova X-ray spectroscopy”
- 2015 August: Universidad de Los Andes (Colombia), I Astronomy workshop in Los Andes, “Time and spectral study of the internal structure of long GRBs with $z \sim 1$ ”
- 2014 December: Universidad de Nariño (Colombia), IV Colombian Congress of Astronomy & Astrophysics, “Study of spectral lag of long GRBs with similar redshift ($z \sim 1$)”

CONFERENCE/MEETING/WORKSHOP ORGANIZING COMMITTEES

- 2025 Local co-organizer, *The 46th International School for Young Astronomers ISYA*, Yachay Tech, Ecuador
2023 Organizer, *IX School of Astronomy and Astrophysics*, Astronomical Observatory of Quito
2023 Organizer, *Series of Colloquia: #AstroCharlas 2023*, Astronomical Observatory of Quito

SUPERVISIONS/MENTORING

- 2024 Apr. - 2024 Oct. Jesse Crans, undergraduate student, internship, Radboud University
2023 Mar. - Present Jennifer Chacón Chávez, doctoral student, Pontificia Universidad Católica de Chile
2024 Jan. - 2025 Feb. Nicolás Noriega, Undergraduate Thesis, Escuela Politécnica Nacional, Ecuador
2024 Jan. - 2025 Feb. Esteban Cardenas, Undergraduate Thesis, Escuela Politécnica Nacional, Ecuador
2021 Nov. - 2022 Aug. Jennifer Chacón Chávez, Undergraduate Thesis, Escuela Politécnica Nacional, Ecuador

PRESS

- 2024 *IAU*, "Gruber fellowships awards 2024", [Link](#).
2024 *PUC*, "Doctor del Instituto de Astrofísica UC recibió beca internacional: fue reconocido por la Fundación Gruber y la IAU", [Link](#).
2024 *EPN*, "Investigador del Observatorio Astronómico de la Escuela Politécnica Nacional recibe galardón internacional", [Link](#).
2023 *PUC*, "UC graduo a 180 nuevos doctores y doctoras este 2023", [Link](#).
2022 *Nature*, "Newfound X-ray flashes might shed light on their own origins", [Link](#).
2022 *Astronomy & Astrophysics*, "Extragalactic fast X-ray transient candidates discovered by *Chandra* (2000-2014)", [Link](#).

FELLOWSHIPS AND AWARDS

- 2024 Gruber Foundation–IAU Fellowship in Astrophysics
2023 Pontificia Universidad Católica de Chile, the Best PhD thesis award 2023
2022 - 2023 Millennium Institute of Astrophysics, Doctoral student fellowship
2019 SOCHIAS, Beca Adelina Gutierrez
2018 - 2022 Agencia Nacional de Investigación y Desarrollo de Chile, Doctoral student fellowship

REFERENCES

- Prof. Peter Jonker, Radboud University, p.jonker@astro.ru.nl
Prof. Franz E. Bauer, Pontificia Universidad Católica de Chile, fbauer@astro.puc.cl
Prof. Andrew Levan, Radboud University, a.levan@astro.ru.nl