LISTE DE PUBLICATIONS

PRINCIPAUX ARTICLES

- 1. Laginja, I.; Baudoz, P.; **Mazoyer, J.** et al. (2025), Extended Linearity in the High-Order Wavefront Sensor for the Roman Coronagraph, accepted for publication in A&A, arXiv link
- 2. Squicciarini, V.; Mazoyer, J.; Lagrange, A.-M. et al. (2025), The COBREX archival survey: Improved constraints on the occurrence rate of wide-orbit substellar companions: I. A uniform re-analysis of 400 stars from the GPIES survey, Astronomy and Astrophysics, 693, A54, DOI link, arXiv link, 2 citations
- 3. Gutierrez, Y.; Mazoyer, J.; Mugnier, L. M. et al. (2024), Image-based wavefront correction using model-free reinforcement learning, Optics Express, 32, 31247, DOI link, arXiv link
- 4. Galicher, R.; Potier, A.; Mazoyer, J. et al. (2024), Increasing the raw contrast of VLT/SPHERE with the dark hole technique. III. Broadband reference differential imaging of HR4796 using a four-quadrant phase mask, Astronomy and Astrophysics, 686, A54, DOI link, arXiv link, 1 citation
- 5. Galicher, R. & Mazoyer, J. (2024), Imaging exoplanets with coronagraphic instruments, Comptes Rendus Physique, 24, 133, DOI link, arXiv link, 16 citations
- 6. Stasevic, S.; Milli, J.; Mazoyer, J. et al. (2023), An inner warp discovered in the disk around HD 110058 using VLT/SPHERE and HST/STIS, Astronomy and Astrophysics, 678, A8, DOI link, arXiv link, 7 citations
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- 8. Chen, C.; Mazoyer, J.; Poteet, C. A. et al. (2020), Multiband GPI Imaging of the HR 4796A Debris Disk, The Astrophysical Journal, 898, 55, DOI link, arXiv link, 36 citations
- 9. Mazoyer, J.; Pueyo, L.; N'Diaye, M. et al. (2018), Active Correction of Aperture Discontinuities-Optimized Stroke Minimization. II. Optimization for Future Missions, The Astronomical Journal, 155, 8, DOI link, arXiv link, 22 citations
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- 11. Fogarty, K.; Pueyo, L.; **Mazoyer, J.** et al. (2017), Polynomial Apodizers for Centrally Obscured Vortex Coronagraphs, The Astronomical Journal, 154, 240, DOI link, arXiv link, 10 citations
- 12. Mazoyer, J.; Pueyo, L.; Norman, C. et al. (2016), Active compensation of aperture discontinuities for WFIRST-AFTA: analytical and numerical comparison of propagation methods and preliminary results with a WFIRST-AFTA-like pupil, Journal of Astronomical Telescopes, Instruments, and Systems, 2, 011008, DOI link, arXiv link, 9 citations
- 13. Mazoyer, J.; Boccaletti, A.; Choquet, É. et al. (2016), A Symmetric Inner Cavity in the HD 141569A Circumstellar Disk, The Astrophysical Journal, 818, 150, DOI link, arXiv link, 13 citations

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- 1. Lagrange, A.-M.; Wilkinson, C.; Mâlin, M. et al. (2025), Evidence for a sub-jovian planet in the young TWA7 disk, accepted for publication in Nature arXiv link
- 2. Hom, J.; Esposito, T. M.; Crotts, K. A. et al. (2025), The Disks In Scorpius-Centaurus Survey (DISCS)
 I: Four Newly-Resolved Debris Disks in Polarized Intensity Light, accepted for publication in A&A arXiv link
- 3. Desgrange, C.; Milli, J.; Chauvin, G. et al. (2025), Dust populations from 30 to 1,000 au in HD 120326 debris disk:. A panchromatic view with VLT/SPHERE, ALMA, and HST /STIS, accepted for publication in A&A arXiv link
- 4. Chomez, A.; Delorme, P.; Lagrange, A.-M. et al. (2025), The SPHERE infrared survey for exoplanets (SHINE): IV. Complete observations, data reduction and analysis, detection performances, and final results, Astronomy and Astrophysics, 697, A99, DOI link, arXiv link, 2 citations
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- 8. Lewis, B. L.; Fitzgerald, M. P.; Esposito, T. M. et al. (2024), Gemini Planet Imager Observations of a Resolved Low-inclination Debris Disk around HD 156623, The Astronomical Journal, 168, 142, DOI link, arXiv link, 1 citation
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- 22. Crotts, K. A.; Matthews, B. C.; Esposito, T. M. et al. (2021), A Deep Polarimetric Study of the Asymmetrical Debris Disk HD 106906, The Astrophysical Journal, 915, 58, DOI link, arXiv link, 16 citations
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- 37. Perrot, C.; Boccaletti, A.; Pantin, E. et al. (2016), Discovery of concentric broken rings at sub-arcsec separations in the HD 141569A gas-rich, debris disk with VLT/SPHERE, Astronomy and Astrophysics, 590, L7, DOI link, arXiv link, 42 citations
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- 2. Mazoyer, J.; Goulas, C.; Vidal, F. et al. (2024), Upgrading SPHERE with the second stage AO system SAXO+: non-common path aberrations estimation and correction, Ground-based and Airborne Instrumentation for Astronomy X, 13096, 130969D, DOI link
- 3. Fogarty, K.; Mawet, D.; **Mazoyer, J.** et al. (2020), Towards high throughput and low-order aberration robustness for vortex coronagraphs with central obstructions, Space Telescopes and Instrumentation 2020: Optical, Infrared, and Millimeter Wave, 11443, 114433Y, DOI link, 1 citation
- 4. Mazoyer, J.; Arriaga, P.; Hom, J. et al. (2020), DiskFM: A forward modeling tool for disk analysis with coronagraphic instruments, Ground-based and Airborne Instrumentation for Astronomy VIII, 11447, 1144759, DOI link, arXiv link, 8 citations
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- 6. Ruane, G.; Riggs, A.; Mazoyer, J. et al. (2018), Review of high-contrast imaging systems for current and future ground- and space-based telescopes I: coronagraph design methods and optical performance metrics, Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 106982S, DOI link, arXiv link, 14 citations
- 7. Mazoyer, J.; Pueyo, L.; N'Diaye, M. et al. (2017), Capabilities of ACAD-OSM, an active method for the correction of aperture discontinuities, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 10400, 104000G, DOI link, arXiv link, 2 citations
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- 14. N'Diaye, M.; Mazoyer, J.; Choquet, É. et al. (2015), High-contrast imager for complex aperture telescopes (HiCAT): 3. first lab results with wavefront control, Techniques and Instrumentation for Detection of Exoplanets VII, 9605, 96050I, DOI link, arXiv link, 21 citations

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