PUBLICATION LIST

MAJOR REFEREED PUBLICATIONS

- 1. Squicciarini, V.; Mazoyer, J.; Lagrange, A.-M. et al. (2024), 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, (accepted for publication in Astronomy & Astrophysics), arXiv link
- 2. 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
- 3. 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
- 4. Galicher, R. & Mazoyer, J. (2024), Imaging exoplanets with coronagraphic instruments, Comptes Rendus Physique, 24, 133, DOI link, arXiv link, 9 citations
- 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, 3 citations
- 6. Potier, A.; Mazoyer, J.; Wahhaj, Z. et al. (2022), Increasing the raw contrast of VLT/SPHERE with the dark hole technique. II. On-sky wavefront correction and coherent differential imaging, Astronomy and Astrophysics, 665, A136, DOI link, arXiv link, 15 citations
- 7. 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
- 8. 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
- 9. Mazoyer, J.; Pueyo, L.; N'Diaye, M. et al. (2018), Active Correction of Aperture Discontinuities-Optimized Stroke Minimization. I. A New Adaptive Interaction Matrix Algorithm, The Astronomical Journal, 155, 7, DOI link, arXiv link, 18 citations
- 10. 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
- 11. 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
- 12. 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
- 13. Mazoyer, J.; Boccaletti, A.; Augereau, J.-C. et al. (2014), Is the HD 15115 inner disk really asymmetrical?, Astronomy and Astrophysics, 569, A29, DOI link, arXiv link, 34 citations
- 14. Mazoyer, J.; Baudoz, P.; Galicher, R. et al. (2014), High-contrast imaging in polychromatic light with the self-coherent camera, Astronomy and Astrophysics, 564, L1, DOI link, arXiv link, 34 citations
- 15. Mazoyer, J.; Baudoz, P.; Galicher, R. et al. (2013), Estimation and correction of wavefront aberrations using the self-coherent camera: laboratory results, Astronomy and Astrophysics, 557, A9, DOI link, arXiv link, 37 citations

OTHER REFEREED PUBLICATIONS

- 1. Wilkinson, C.; Charnay, B.; Mazevet, S. et al (2024), Breaking degeneracies in exoplanetary parameters through self-consistent atmosphere-interior modelling, (accepted for publication in Astronomy & Astrophysics), arXiv link
- 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
- 3. Goulas, C.; Galicher, R.; Vidal, F. et al. (2024), Numerical simulations for the SAXO+ upgrade: Performance analysis of the adaptive optics system, Astronomy and Astrophysics, 689, A199, DOI link, arXiv link, 2 citations
- Petrus, S.; Whiteford, N.; Patapis, P. et al. (2024), The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems. V. Do Self-consistent Atmospheric Models Represent JWST Spectra? A Showcase with VHS 1256-1257 b, The Astrophysical Journal, 966, L11, DOI link, arXiv link, 12 citations
- 5. Hom, J.; Patience, J.; Chen, C. H. et al. (2024), A uniform analysis of debris discs with the Gemini Planet Imager II: constraints on dust density distribution using empirically informed scattering phase functions, Monthly Notices of the Royal Astronomical Society, 528, 6959, DOI link, arXiv link, 4 citations
- 6. Sallum, S.; Ray, S.; Kammerer, J. et al. (2024), The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems. IV. NIRISS Aperture Masking Interferometry Performance and Lessons Learned, The Astrophysical Journal, 963, L2, DOI link, arXiv link, 4 citations
- 7. Worthen, K.; Chen, C. H.; Brittain, S. D. et al. (2024), Vertical Structure of Gas and Dust in Four Debris Disks, The Astrophysical Journal, 962, 166, DOI link, arXiv link, 1 citation
- 8. Crotts, K. A.; Matthews, B. C.; Duchêne, G. et al. (2024), A Uniform Analysis of Debris Disks with the Gemini Planet Imager. I. An Empirical Search for Perturbations from Planetary Companions in Polarized Light Images, The Astrophysical Journal, 961, 245, DOI link, arXiv link, 5 citations
- 9. Vaughan, S. R.; Gebhard, T. D.; Bott, K. et al. (2023), Chasing rainbows and ocean glints: Inner working angle constraints for the Habitable Worlds Observatory, Monthly Notices of the Royal Astronomical Society, 524, 5477, DOI link, arXiv link, 13 citations
- 10. Carter, A. L.; Hinkley, S.; Kammerer, J. et al. (2023), The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems I: High-contrast Imaging of the Exoplanet HIP 65426 b from 2 to 16 μm, The Astrophysical Journal, 951, L20, DOI link, arXiv link, 62 citations
- 11. Miles, B. E.; Biller, B. A.; Patapis, P. et al. (2023), The JWST Early-release Science Program for Direct Observations of Exoplanetary Systems II: A 1 to 20 μm Spectrum of the Planetary-mass Companion VHS 1256-1257 b, The Astrophysical Journal, 946, L6, DOI link, arXiv link, 93 citations
- 12. Hinkley, S.; Carter, A. L.; Ray, S. et al. (2022), The JWST Early Release Science Program for the Direct Imaging and Spectroscopy of Exoplanetary Systems, Publications of the Astronomical Society of the Pacific, 134, 095003, DOI link, arXiv link, 45 citations
- 13. Crotts, K. A.; Draper, Z. H.; Matthews, B. C. et al. (2022), A Multiwavelength Study of the Highly Asymmetrical Debris Disk around HD 111520, The Astrophysical Journal, 932, 23, DOI link, arXiv link, 5 citations
- 14. Betti, S. K.; Follette, K.; Jorquera, S. et al. (2022), Detection of Near-infrared Water Ice at the Surface of the (Pre)Transitional Disk of AB Aur: Informing Icy Grain Abundance, Composition, and Size, The Astronomical Journal, 163, 145, DOI link, arXiv link, 14 citations
- 15. Singh, G.; Bhowmik, T.; Boccaletti, A. et al. (2021), Revealing asymmetrical dust distribution in the inner regions of HD 141569, Astronomy and Astrophysics, 653, A79, DOI link, arXiv link, 11 citations
- 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, 14 citations

- 17. Arriaga, P.; Fitzgerald, M. P.; Duchêne, G. et al. (2020), Multiband Polarimetric Imaging of HR 4796A with the Gemini Planet Imager, The Astronomical Journal, 160, 79, DOI link, arXiv link, 29 citations
- 18. Esposito, T. M.; Kalas, P.; Fitzgerald, M. P. et al. (2020), Debris Disk Results from the Gemini Planet Imager Exoplanet Survey's Polarimetric Imaging Campaign, The Astronomical Journal, 160, 24, DOI link, arXiv link, 83 citations
- 19. Duchêne, G.; Rice, M.; Hom, J. et al. (2020), The Gemini Planet Imager View of the HD 32297 Debris Disk, The Astronomical Journal, 159, 251, DOI link, arXiv link, 22 citations
- 20. Ertel, S.; Defrère, D.; Hinz, P. et al. (2020), The HOSTS Survey for Exozodiacal Dust: Observational Results from the Complete Survey, The Astronomical Journal, 159, 177, DOI link, arXiv link, 97 citations
- 21. Bruzzone, J. S.; Metchev, S.; Duchêne, G. et al. (2020), Imaging the 44 au Kuiper Belt Analog Debris Ring around HD 141569A with GPI Polarimetry, The Astronomical Journal, 159, 53, DOI link, arXiv link, 10 citations
- 22. Hom, J.; Patience, J.; Esposito, T. M. et al. (2020), First Resolved Scattered-light Images of Four Debris Disks in Scorpius-Centaurus with the Gemini Planet Imager, The Astronomical Journal, 159, 31, DOI link, arXiv link, 12 citations
- 23. Bhowmik, T.; Boccaletti, A.; Thébault, P. et al. (2019), Spatially resolved spectroscopy of the debris disk HD 32297. Further evidence of small dust grains, Astronomy and Astrophysics, 630, A85, DOI link, arXiv link, 27 citations
- 24. Ren, B.; Choquet, É.; Perrin, M. D. et al. (2019), An Exo-Kuiper Belt with an Extended Halo around HD 191089 in Scattered Light, The Astrophysical Journal, 882, 64, DOI link, arXiv link, 39 citations
- 25. Stark, C. C.; Belikov, R.; Bolcar, M. R. et al. (2019), ExoEarth yield landscape for future direct imaging space telescopes, Journal of Astronomical Telescopes, Instruments, and Systems, 5, 024009, DOI link, arXiv link, 57 citations
- 26. Engler, N.; Boccaletti, A.; Schmid, H. M. et al. (2019), Investigating the presence of two belts in the HD 15115 system, Astronomy and Astrophysics, 622, A192, DOI link, arXiv link, 30 citations
- 27. Esposito, T. M.; Duchêne, G.; Kalas, P. et al. (2018), Direct Imaging of the HD 35841 Debris Disk: A Polarized Dust Ring from Gemini Planet Imager and an Outer Halo from HST/STIS, The Astronomical Journal, 156, 47, DOI link, arXiv link, 32 citations
- 28. Leboulleux, L.; Sauvage, J.-F.; Pueyo, L. A. et al. (2018), Pair-based Analytical model for Segmented Telescopes Imaging from Space for sensitivity analysis, Journal of Astronomical Telescopes, Instruments, and Systems, 4, 035002, DOI link, arXiv link, 20 citations
- 29. Poteet, C. A.; Chen, C. H.; Hines, D. C. et al. (2018), Space-based Coronagraphic Imaging Polarimetry of the TW Hydrae Disk: Shedding New Light on Self-shadowing Effects, The Astrophysical Journal, 860, 115, DOI link, arXiv link, 12 citations
- 30. Jensen-Clem, R.; Mawet, D.; Gomez Gonzalez, C. A. et al. (2018), A New Standard for Assessing the Performance of High Contrast Imaging Systems, The Astronomical Journal, 155, 19, DOI link, arXiv link, 32 citations
- 31. 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
- 32. Delorme, J. R.; Galicher, R.; Baudoz, P. et al. (2016), Focal plane wavefront sensor achromatization: The multireference self-coherent camera, Astronomy and Astrophysics, 588, A136, DOI link, arXiv link, 18 citations
- 33. Choquet, É.; Perrin, M. D.; Chen, C. H. et al. (2016), First Images of Debris Disks around TWA 7, TWA 25, HD 35650, and HD 377, The Astrophysical Journal, 817, L2, DOI link, arXiv link, 74 citations
- 34. Debes, J. H.; Ygouf, M.; Choquet, E. et al. (2016), Wide-Field Infrared Survey Telescope-Astrophysics Focused Telescope Assets coronagraphic operations: lessons learned from the Hubble Space Telescope

- and the James Webb Space Telescope, Journal of Astronomical Telescopes, Instruments, and Systems, 2, 011010, DOI link, arXiv link, 11 citations
- 35. Wiens, R. C.; Maurice, S.; Lasue, J. et al. (2013), Pre-flight calibration and initial data processing for the ChemCam laser-induced breakdown spectroscopy instrument on the Mars Science Laboratory rover, Spectrochimica Acta Part B: Atomic Spectroscopy, 82, 1, DOI link, 166 citations
- 36. Cousin, A.; Forni, O.; Maurice, S. et al. (2011), Laser induced breakdown spectroscopy library for the Martian environment, Spectrochimica Acta Part B: Atomic Spectroscopy, 66, 805, DOI link, 54 citations

MAJOR CONFERENCE PROCEEDINGS

- 1. Gutierrez, Y.; Mazoyer, J.; Herscovici-Schiller, O. et al. (2024), A deep reinforcement learning approach to wavefront control for exoplanet imaging, Space Telescopes and Instrumentation 2024: Optical, Infrared, and Millimeter Wave, 13092, 130926H, DOI link
- 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, 6 citations
- 5. Fogarty, K.; Mazoyer, J.; St. Laurent, K. et al. (2018), Optimal deformable mirror and pupil apodization combinations for apodized pupil Lyot coronagraphs with obstructed pupils, Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 106981J, DOI link, 2 citations
- 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, 13 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
- 8. Mazoyer, J. & Pueyo, L. (2017), Fundamental limits to high-contrast wavefront control, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 10400, 1040014, DOI link, arXiv link, 2 citations
- 9. Leboulleux, L.; N'Diaye, M.; **Mazoyer, J.** et al. (2017), Comparison of wavefront control algorithms and first results on the high-contrast imager for complex aperture telescopes (hicat) testbed, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 10562, 105622Z, DOI link
- 10. Fogarty, K.; Pueyo, L.; **Mazoyer, J.** et al. (2017), *Tip/tilt optimizations for polynomial apodized vortex coronagraphs on obscured telescope pupils*, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 10400, 104000T, DOI link, 2 citations
- 11. Mazoyer, J.; Pueyo, L.; N'Diaye, M. et al. (2016), Correcting for the effects of pupil discontinuities with the ACAD method, Space Telescopes and Instrumentation 2016: Optical, Infrared, and Millimeter Wave, 9904, 99044T, DOI link, arXiv link, 2 citations
- 12. Mazoyer, J.; Pueyo, L.; Norman, C. et al. (2015), Active compensation of aperture discontinuities for WFIRST- AFTA: analytical and numerical comparison of propagation methods and preliminary results with an AFTA like pupil, Nancy Grace Roman Space Telescope Technical Reports, 1505

- 13. Mazoyer, J.; Pueyo, L.; Norman, C. et al. (2015), Active correction of aperture discontinuities (ACAD) for space telescope pupils: a parametic analysis, Techniques and Instrumentation for Detection of Exoplanets VII, 9605, 96050M, DOI link, arXiv link, 10 citations
- 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, 20 citations
- 15. Mazoyer, J.; Galicher, R.; Baudoz, P. et al. (2014), Deformable mirror interferometric analysis for the direct imagery of exoplanets, Adaptive Optics Systems IV, 9148, 914846, DOI link, arXiv link, 1 citation
- 16. Mazoyer, J.; Baudoz, P.; Galicher, R. et al. (2013), Direct detection of exoplanets in polychromatic light with a Self-coherent camera, Proceedings of the Third AO4ELT Conference, 97, DOI link
- 17. Baudoz, P.; Mazoyer, J.; Galicher, R. (2013), Laboratory tests of planet signal extraction in high contrast images, Proceedings of the Third AO4ELT Conference, 109, DOI link, 2 citations
- 18. Mazoyer, J.; Galicher, R.; Baudoz, P. et al. (2013), Speckle correction in polychromatic light with the self-coherent camera for the direct detection of exoplanets, Techniques and Instrumentation for Detection of Exoplanets VI, 8864, 88640N, DOI link, arXiv link, 1 citation
- 19. Galicher, R.; Mazoyer, J.; Baudoz, P. et al. (2013), High-contrast imaging with a self-coherent camera, Techniques and Instrumentation for Detection of Exoplanets VI, 8864, 88640M, DOI link
- 20. Baudoz, P.; Mazoyer, J.; Mas, M. et al. (2012), Dark hole and planet detection: laboratory results using the self-coherent camera, Ground-based and Airborne Instrumentation for Astronomy IV, 8446, 84468C, DOI link, 11 citations
- 21. Mas, M.; Baudoz, P.; **Mazoyer**, **J.** et al. (2012), Experimental results on wavefront correction using the self-coherent camera, Ground-based and Airborne Instrumentation for Astronomy IV, 8446, 844689, DOI link, 4 citations
- 22. Mazoyer, J.; Baudoz, P.; Mas, M. et al. (2012), Experimental parametric study of the self-coherent camera, Space Telescopes and Instrumentation 2012: Optical, Infrared, and Millimeter Wave, 8442, 844250, DOI link, arXiv link, 2 citations
- 23. Gasnault, O.; Mazoyer, J.; Cousin, A. et al. (2012), Deciphering Sample and Atmospheric Oxygen Contents with ChemCam on Mars, 43rd Annual Lunar and Planetary Science Conference, 2888, 1 citation

OTHER CONFERENCE PROCEEDINGS

- 1. Stadler, E.; Schreiber, L.; Cortecchia, F. et al. (2024), Upgrading SPHERE with the second-stage adaptive optics system SAXO+: conceptual design of the opto-mechanical module, Adaptive Optics Systems IX, 13097, 130976S, DOI link
- 2. Goulas, C.; Galicher, R.; Vidal, F. et al. (2024), Upgrading SPHERE with the second stage AO system SAXO+: exploration of the parameter space with end-to-end numerical simulations, Adaptive Optics Systems IX, 13097, 1309769, DOI link
- 3. Cantalloube, F.; Christiaens, V.; Cantero, C. et al. (2024), Exoplanet imaging data challenge, phase II: comparison of algorithms in terms of characterization capabilities, Adaptive Optics Systems IX, 13097, 1309713, DOI link, arXiv link
- 4. Potier, A.; Riggs, A. J. E.; Ruane, G. et al. (2024), Revisiting the Borde-Traub focal plane wavefront estimation technique for exoplanet direct imaging, Space Telescopes and Instrumentation 2024: Optical, Infrared, and Millimeter Wave, 13092, 130926E, DOI link
- 5. Savransky, D.; Bailey, V. P.; Wolff, S. G. et al. (2024), *The Nancy Grace Roman Space Telescope coronagraph community participation program*, Space Telescopes and Instrumentation 2024: Optical, Infrared, and Millimeter Wave, 13092, 130921I, DOI link
- 6. Millar-Blanchaer, M. A.; Wang, J.; Bogat, E. et al. (2024), *The Roman coronagraph community participation program: data reduction and simulations*, Space Telescopes and Instrumentation 2024: Optical, Infrared, and Millimeter Wave, 13092, 1309256, DOI link

- 7. Fowler, J.; Haffert, S. Y.; van Kooten, M. A. M. et al. (2023), Visible extreme adaptive optics on extremely large telescopes: towards detecting oxygen in Proxima Centauri b and analogs, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 12680, 126801U, DOI link, 2 citations
- 8. Desai, N.; König, L.; Por, E. et al. (2023), Integrated photonic-based coronagraphic systems for future space telescopes, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 12680, 126801S, DOI link, arXiv link, 1 citation
- 9. Béchet, C.; Tallon, M.; Thiébaut, E. et al. (2023), Inverse problem approach for SPHERE+ adaptive optics control, Adaptive Optics for Extremely Large Telescopes (AO4ELT7), 47, DOI link
- 10. Stadler, E.; Diolaiti, E.; Schreiber, L. et al. (2023), Status report of the SAXO+ opto-mechanical design concept, Adaptive Optics for Extremely Large Telescopes (AO4ELT7), 127, DOI link
- 11. Goulas, C.; Vidal, F.; Galicher, R. et al. (2023), SAXO+ upgrade: second stage AO system end-to-end numerical simulations, Adaptive Optics for Extremely Large Telescopes (AO4ELT7), 32, DOI link
- 12. Cantalloube, F.; Christiaens, V.; Cantero, C. et al. (2022), Exoplanet imaging data challenge, phase II: characterization of exoplanet signals in high-contrast images, Adaptive Optics Systems VIII, 12185, 1218505, DOI link, arXiv link, 1 citation
- 13. Boccaletti, A.; Chauvin, G.; Wildi, F. et al. (2022), Upgrading the high contrast imaging facility SPHERE: science drivers and instrument choices, Ground-based and Airborne Instrumentation for Astronomy IX, 12184, 121841S, DOI link, arXiv link, 1 citation
- 14. Potier, A.; Wahhaj, Z.; Galicher, R. et al. (2022), Improving VLT/SPHERE without additional hardware: comparing quasi-static correction strategies, Adaptive Optics Systems VIII, 12185, 1218568, DOI link, arXiv link
- 15. Lopez, R.; Fitzgerald, M.; Duchene, G. et al. (2022), The Peculiar Warp of HD 110058's Debris Disk, American Astronomical Society Meeting #240, 240, 421.01
- N'Diaye, M.; Fogarty, K.; Soummer, R. et al. (2018), Apodized Pupil Lyot coronagraphs with arbitrary aperture telescopes: novel designs using hybrid focal plane masks, Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 106986A, DOI link, arXiv link, 2 citations
- 17. Soummer, R.; Brady, G. R.; Brooks, K. et al. (2018), High-contrast imager for complex aperture telescopes (HiCAT): 5. first results with segmented-aperture coronagraph and wavefront control, Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 106981O, DOI link, arXiv link, 7 citations
- 18. Snik, F.; Absil, O.; Baudoz, P. et al. (2018), Review of high-contrast imaging systems for current and future ground-based and space-based telescopes III: technology opportunities and pathways, Advances in Optical and Mechanical Technologies for Telescopes and Instrumentation III, 10706, 107062L, DOI link, arXiv link, 3 citations
- 19. St. Laurent, K.; Fogarty, K.; Zimmerman, N. T. et al. (2018), Apodized pupil Lyot coronagraphs designs for future segmented space telescopes, Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 106982W, DOI link, arXiv link, 4 citations
- 20. Jovanovic, N.; Absil, O.; Baudoz, P. et al. (2018), Review of high-contrast imaging systems for current and future ground-based and space-based telescopes: Part II. Common path wavefront sensing/control and coherent differential imaging, Adaptive Optics Systems VI, 10703, 107031U, DOI link, arXiv link, 15 citations
- 21. Leboulleux, L.; Pueyo, L.; Sauvage, J.-F. et al. (2018), Sensitivity analysis for high-contrast imaging with segmented space telescopes, Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 106986H, DOI link, 3 citations
- 22. Egron, S.; Soummer, R.; Lajoie, C.-P. et al. (2017), James Webb Space Telescope optical simulation testbed IV: linear control alignment of the primary segmented mirror, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 10398, 1039811, DOI link

- 23. Pueyo, L.; Zimmerman, N.; Bolcar, M. et al. (2017), The LUVOIR architecture "A" coronagraph instrument, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 10398, 103980F, DOI link, 10 citations
- 24. Leboulleux, L.; N'Diaye, M.; Riggs, A. J. E. et al. (2016), High-contrast imager for Complex Aperture Telescopes (HiCAT). 4. Status and wavefront control development, Space Telescopes and Instrumentation 2016: Optical, Infrared, and Millimeter Wave, 9904, 99043C, DOI link, 8 citations
- 25. Debes, J. H.; Ygouf, M.; Choquet, E. et al. (2015), WFIRST-AFTA Coronagraphic Operations: Lessons Learned from the Hubble Space Telescope and the James Webb Space Telescope, Nancy Grace Roman Space Telescope Technical Reports, 1504
- 26. Galicher, R.; Baudoz, P.; Delorme, J. R. et al. (2014), High contrast imaging on the THD bench: progress and upgrades, Space Telescopes and Instrumentation 2014: Optical, Infrared, and Millimeter Wave, 9143, 91435A, DOI link, 3 citations
- 27. Delorme, J. R.; Galicher, R.; Baudoz, P. et al. (2014), High-contrast imaging in wide spectral band with a self-coherent camera and achromatic coronagraphs, Advances in Optical and Mechanical Technologies for Telescopes and Instrumentation, 9151, 91515Q, DOI link, 1 citation
- 28. Galicher, R.; Delorme, J. R.; Baudoz, P. et al. (2013), Focal Plane Wavefront Sensing with a self-coherent camera, Proceedings of the Third AO4ELT Conference, 123, DOI link

WHITE PAPERS (SELECTED)

- Boccaletti, A. et al. (2020), SPHERE+: Imaging young Jupiters down to the snowline, arXiv e-prints, arXiv:2003.05714
- Gaudi, B. S. et al. (2020), The Habitable Exoplanet Observatory (HabEx) Mission Concept Study Final Report, arXiv e-prints, arXiv:2001.06683
- The LUVOIR Team (2019), The LUVOIR Mission Concept Study Final Report, arXiv e-prints, arXiv:1912.06219
- Mazoyer, J. et al. (2019), High-Contrast Testbeds for Future Space-Based Direct Imaging Exoplanet Missions, Bulletin of the American Astronomical Society, 51, 101, arXiv:1907.09508

THESIS

- Mazoyer, J. (2024) Optique active pour l'imagerie d'exoplanètes et de disques de débris. Thèse d'habilitation. Observatoire de Paris PSL, HAL link Defense Youtube link
- Mazoyer, J. (2014) Haut contraste pour l'imagerie directe d'exoplanètes et de disques : de la selfcoherent camera à l'analyse de données NICI. Thèse de doctorat. Université Paris Diderot - Paris 7, DOI link