

Johan MAZOYER

Research Interests: Optical Instrumentation, Direct Imaging & Coronagraphy, Observation & Characterization of Extrasolar Systems, Debris Disks

1 RESEARCH POSITIONS

CNRS Scientist – LIRA/Paris Observatory - PSL (France)	Since 2020
Carl Sagan Fellow – NASA Jet Propulsion Laboratory (Pasadena, CA)	2018 - 2019
Postdoc – Johns Hopkins University (Baltimore, MD)	2016 - 2018
Postdoc – Space Telescope Science Institute (Baltimore, MD)	2014 - 2016
Graduate Student – LIRA/Paris Observatory - PSL (France)	2011 - 2014

2 EDUCATION

HDR (French habilitation) – Paris Observatory - PSL (France)	March 2024
PhD – Astronomy & Astrophysics – Université Paris Cité (Paris, France)	Sept. 2014
<i>Thesis: High-Contrast Imaging Of Exoplanets And Circumstellar Disks (P. Baudoz & G. Rousset)</i>	
Master – Astrophysics & Planetology – Université de Toulouse (Toulouse, France)	Sept. 2011
<i>Thesis: Influence of Mars atmosphere on ChemCam detection limits (O. Gasnault & R. Wiens)</i>	
Master – Techniques for Space Imaging – ISAE Supaero (Toulouse, France)	Sept. 2011
Bachelor – Embedded systems – Ecole polytechnique (Paris, France)	Sept. 2010

3 GRANTS & AWARDS

ERC - Consolidator Grant (PI) ECHOES - 2 M€	Since 2026
ANR / PEPR Origins (PI) AMINO - 1.1 M€	Since 2026
ANR JCJC (PI) (terminated and reimbursed) - 370 k€	2025-2026
Académie spatiale d'île de France (PI) PhD fund for L. Delaye - 120 k€/3yrs	2025
CNES (PI) (French space agency) PhD fund for M. Castañeda Medina - 120 k€/3yrs	2025
DIM Origins (PI) Hardware funding for a spatial light modulator - 12 k€	2023
CNES (co-PI) (French space agency) Postdoc fund for I. Laginja - 120 k€/2 yrs	2022
Data Intensive Artificial Intelligence program (PI) PhD fund Y. Gutierrez - 120 k€/3yrs	2021
EcosSud Program (PI) Collaboration <i>Universidad de Chile</i> – 50 k€	2020
NASA Group Award: LBTI Hosts Survey Science Team	2020
Carl Sagan Fellowship (NASA Hubble Fellowship Program) – 280k€/3 yrs	2018
Cover of Astronomy & Astrophysics Journal (Volume 564)	2014
Outstanding Presentation Award (CNES fellow symposium JC2)	2013

4 OUTREACH



I am heavily involved in scientific outreach in France. In addition to regular class or public interventions, I am running institutional events and associative initiatives:

- **Podcast Science:** I am running **PodcastScience.fm**, a **general science program**, airing every weeks, in french. Listened by 10'000 to 20'000 listeners, Podcast Science received the Golden blog award for best scientific blog in 2012.

- **Les p'tits cueilleurs d'étoiles:** Association organizing astronomers visits in children hospitals in France. I am organizing all Paris region hospitals (25 visits/yr).

- **Fête de la science:** I was the main organizer of the annual Paris Observatory Doors Open Days (~1000 visitors each year) for two consecutive years (2023 and 2024)

5 PROFESSIONAL ACTIVITIES & SERVICE

Responsibilities in scientific instruments:

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| • Roman Space Telescope Coronagraph: Deputy CNES representative | Since 2023 |
| • VLT/SPHERE+: Dark-Hole work package leader | Since 2022 |
| • Habitable Exoplanet Observatory (HabEx): Contributing Scientist | 2019 |
| • Large UV Optical Infrared Surveyor (LUVOIR): Contributing Scientist | 2019 |
| • Gemini Planet Imager (GPI): junior member of the consortium | 2017-2020 |

Organization of Scientific Meetings:

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| • Roman coronagraphic instrument summer school (SOC) | Nice, March 2026 |
| • ExoSystèmes 4 (SOC) | Lyon, 2024 |
| • National Capital Area Disks conference (SOC & LOC) | Baltimore 2018 |
| • Optimal Optical Coronagraphs workshop (SOC & LOC) | Leiden, 2017 |
| • High Contrast Imaging from Space (SOC) | Baltimore, 2016 |
| • Workshop “très haute dynamique” (LOC) | Paris, 2012 |

Other services:

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| • “Exoplanetary systems” Group Leader at Paris Observatory / LIRA | Since 2025 |
| • Hubble Telescope Allocation Committee | 2024 |
| • Science Commity of CNRS/INSU’s exoplanets group (CET exoplanètes) | 2023 - 2024 |
| • Science Commity of CNRS/INSU’s High Angular Resolution Group (CS-ASHRA) | Since 2021 |
| • Reviewer for <i>AJ</i> , <i>A&A</i> , <i>MNRAS</i> , <i>PASP</i> and <i>JATIS</i> . | |
| • External Reviewer for 2 Phd Committees (France, Belgium). | |

6 MENTORING

Manuela Castañeda Medina (PhD, CNES/ONERA): co-direction with L. Mugnier	Since 2026
Lukas Delaye (PhD, LIRA): co-director with A. Potier	Since 2025
Yann Gutierrez (PhD, LIRA): co-director with L. Mugnier, ONERA	2022-2025
Vito Squicciarini (Postdoc, LIRA): co-advisor with A.-M. Lagrange	2022-2024
Iva Laginja (Postdoc, LIRA): main advisor ; CNES Fellow. Now Resercher at Obs Côte D’Azur	2022-2024
Sophia Stasevic (PhD, LIRA) co-director with A.-M. Lagrange and J. Milli	2021-2025
Justin Hom (PhD, ASU) co-advisor with J. Patience	2019-2023
Kevin Fogarty (PhD, JHU) co-advisor with L. Pueyo. Now Research Scientist at AMES	2017-2019

7 TEACHING

Observatoire de Paris Master Class:

- Instrumentation for Astronomy
- Detection of Exoplanets