

# Johan MAZOYER

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

## 1 RESEARCH POSITIONS

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

## 2 EDUCATION

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

## 3 GRANTS & AWARDS

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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
DIM Origins (PI) Hardware funding for a spatial light modulator - 20 k€	2023
CNES (co-PI) Postdoc fund for I. Lajinja - 60 k€ / 2yrs	2022
Data Intensive Artificial Intelligence program (PI) PhD fund Y. Gutierrez - 120 k€/3yrs	2021
<b>Ecosud</b> Program (PI) for collaboration with <i>Universidad de Chile</i> – 50 k€	2020
NASA Group Award: LBTI Hosts Survey Science Team	2020
Carl Sagan Fellowship ( <b>NASA Hubble Fellowship Program</b> ) – 280k€/3 yrs	2018
Cover of <b>Astronomy &amp; Astrophysics</b> Journal ( <b>Volume 564</b> )	2014
Outstanding Presentation Award (CNES fellow symposium JC <sup>2</sup> )	2013
CNES Doctoral Research Fellowship ( <b>French space agency</b> ) – 50 k€/year	2011

## 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 forbest 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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| • <b>Roman Space Telescope Coronagraph:</b> Deputy CNES representative       | Since 2023 |
| • <b>VLT/SPHERE+:</b> Dark-Hole work package leader                          | Since 2022 |
| • <b>Habitable Exoplanet Observatory (HabEx):</b> Contributing Scientist     | 2019       |
| • <b>Large UV Optical Infrared Surveyor (LUVOIR):</b> Contributing Scientist | 2019       |
| • <b>Gemini Planet Imager (GPI):</b> 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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| • <b>“Exoplanetary systems” Group Leader</b> at Paris Observatory / LIRA                         | Since 2025  |
| • <b>Hubble Telescope Allocation Committee</b>   | 2024        |
| • Science Commity of CNRS/INSU's exoplanets group ( <b>CET exoplanètes</b> )                     | 2023 - 2024 |
| • Science Commity of CNRS/INSU's High Angular Resolution Group ( <b>CS-ASHRA</b> )               | Since 2021  |
| • <b>Reviewer</b> for <i>AJ</i> , <i>A&amp;A</i> , <i>MNRAS</i> , <i>PASP</i> and <i>JATIS</i> . |             |

## 6 MENTORING

Manuela Castañeda Medina (PhD, 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 Leginja (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