

# 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)	03/2024
PhD – Astronomy & Astrophysics – <b>Université Paris Cité</b> (Paris, France)	09/2014
<i>Thesis:</i> High-Contrast Imaging Of Exoplanets And Circumstellar Disks (P. Baudoz & G. Rousset)	
Master – Astrophysics – <b>Université de Toulouse</b> (Toulouse, France)	09/2011
<i>Thesis:</i> Influence of Mars atmosphere on ChemCam detection limits (O. Gasnault & R. Wiens)	
Master – Space Engineering – <b>ISAE Supaero</b> (Toulouse, France)	09/2011
Bachelor – Computer Science – <b>Ecole polytechnique</b> (Paris, France)	09/2010

## 3 GRANTS & AWARDS

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ANR (PI) ECHOES-ANR JCJC: funding 1 Phd & 1 postdoc - 375 k€	Since 2025
DIM Origins (PI) Hardware funding for a spatial light modulator - 20 k€	2023
CNES (co-PI) Postdoc fund for I. Laginja - 60 k€ / 2yrs	2022
Data Intensive Artificial Intelligence program (PI) PhD fund Y. Gutierrez - 120 k€/3yrs	2021
Franco-Chilean Collaboration Program (PI) EcosSud with Univ de Chile - 50 k€/3 yrs	2020
NASA Group Award: LBTI Hosts Survey Science Team	2020
Carl Sagan Fellowship (NASA Hubble Fellowship Program) – 280k€/3 yrs	2018
Cover of <b>Astronomy &amp; Astrophysics</b> Journal (Volume 564)	2014
Outstanding Presentation Award (CNES fellow symposium JC <sup>2</sup> )	2013
CNES Doctoral Research Fellowship (French space agency) – 50 k€/year	2011

## 4 OUTREACH

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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

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

### Other services:

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|---|-------------|
| • Head of “exoplanetary systems” group 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>Referee</b> for publications in the <i>AJ</i> , <i>A&amp;A</i> , <i>MNRAS</i> , <i>PASP</i> and <i>JATIS</i> . |             |

## 6 MENTORING

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<b>Lukas Delaye</b> (PhD, LIRA): co-director with A. Potier	Since 2025
<b>Yann Gutierrez</b> (PhD, LIRA): co-director with L. Mugnier, ONERA	2022-2025
<b>Vito Squicciarini</b> (Postdoc, LIRA): co-advisor with A.-M. Lagrange	2022-2024
<b>Iva Laginja</b> (Postdoc, LIRA): main advisor CNES post-doctoral Fellow	2022-2024
<b>Sophia Stasevic</b> (PhD, LIRA) co-director with A.-M. Lagrange and J. Milli	Since 2021
<b>Justin Hom</b> (PhD, ASU) co-advisor with J. Patience	2019 - 2023
<b>Kevin Fogarty</b> (PhD, JHU) co-advisor with L. Pueyo. Now Research Scientist at AMES	2017-2019

## 7 TEACHING

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### Observatoire de Paris Master Class:

- Instrumentation for Astronomy

- Detection of Exoplanets