

# 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) <i>Thesis:</i> High-Contrast Imaging Of Exoplanets And Circumstellar Disks (P. Baudoz & G. Rousset)	09/2014
Master – Astrophysics – <b>Université de Toulouse</b> (Toulouse, France) <i>Thesis:</i> Influence of Mars atmosphere on ChemCam detection limits (O. Gasnault & R. Wiens)	09/2011
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) <b>EcosSud</b> with <i>Univ de Chile</i> - 50 k€/3 yrs	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 Journal</b> ( <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 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:

- **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:

- 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:

- Head of "exoplanetary systems" group 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
- **Referee** for publications in the *AJ*, *A&A*, *MNRAS*, *PASP* and *JATIS*.

## 6 MENTORING

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

## 7 TEACHING

Observatoire de Paris Master Class:

- Instrumentation for Astronomy

- Detection of Exoplanets