

# 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>LESIA/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>LESIA/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 Diderot</b> (France) <i>Thesis:</i> High-Contrast Imaging Of Exoplanets And Circumstellar Disks (P. Baudoz & G. Rousset)	09/2014
Master – Astrophysics – <b>Université Paul Sabatier</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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DIM Origins Hardware funding for a spatial light modulator - 20 k	2023
CNES (co-I) 2 years postdoc funding for Iva Laginja - 56 k / 2yrs	2021
Franco-Chilean Collaboration Program <b>EcosSud</b> with <i>Universidad 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
CNES Doctoral Research Fellowship ( <b>French space agency</b> ) – 3 yrs	2011
Ecole Polytechnique Scholarship – 4 yrs	2007

## 4 OUTREACH

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

**Public talks:** CERN & Palais de la découverte (Paris)

## 5 PROFESSIONAL ACTIVITIES & SERVICE

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### Conference, Workshop and Seminar Organizer:

- Seminar “**Haute Résolution Angulaire pour l’Astrophysique**” (**HRAA**) at LESIA (2020-)
- Organizer and SOC: **National Capital Area Disks** workshop (Baltimore, MD, Oct. 2018) - [website](#)
- Organizer and SOC: **Optimal Optical Coronagraphs** workshop (Leiden, NL, Sep. 2017) - [website](#)
- Seminar “**Exoplanet Star and Planet Formation**” (**ESPF**) at STScI (2016-2018)
- SOC: **High Contrast Imaging from Space** (Baltimore, MD, Nov. 2016) - [website](#)
- LOC: Workshop **très haute dynamique** (Paris, 2012)

### Other Services:

- **Hubble Telescope Allocation Committee** 2024
- Head of high-contrast imaging team at LESIA 2023 -
- Science Commity of CNRS/INSU’s exoplanets group (**CET exoplanètes**) 2023 -
- **Roman**: Deputy CNES representative in Community Participation Program (CPP) Team 2023 -
- **SPHERE+**: Responsible of the Focal Plane Wavefront Sensor working group 2022 -
- Science Commity of CNRS/INSU’s High Angular Resolution Group (**CS-ASHRA**) 2021 -
- **Habitable Exoplanet Observatory (HabEx)**: Contributing Scientist 2019
- **Large UV Optical Infrared Surveyor (LUVOIR)**: Contributing Scientist 2019
- IAU Junior member 2019 -
- **Referee** for publications in the *AJ*, *A&A*, *MNRAS*, *PASP* and *JATIS*.

## 6 MENTORING

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<b>Yann Gutierrez</b> (PhD, LESIA): co-advisor with L. Mugnier, ONERA	<b>Since 2022</b>
<b>Vito Squicciarini</b> (Postdoc, LESIA): co-advisor with A.-M. Lagrange	<b>2022-2024</b>
<b>Iva Lajinja</b> (Postdoc, LESIA): main advisor CNES post-doctoral Fellow	<b>2022-2024</b>
<b>Sophia Stasevic</b> (PhD, LESIA) co-advisor 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

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### Observatoire de Paris Master Class:

- Instrumentation for Astronomy
- Detection of Exoplanets (collab. Anne-Marie Lagrange)