

# 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</b> (France)	Since 2020
Sagan Fellow – <b>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</b> (France)	2011 - 2014

## 2 EDUCATION

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

## 3 GRANTS & AWARDS

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Carl Sagan Fellowship ( <b>NASA Hubble Fellowship Program</b> ) – 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> ) – 3 yrs	2011
Ecole Polytechnique Scholarship – 4 yrs	2007

## 4 OUTREACH



**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.

**Kidi'Science:** Contributor for this children science blog.

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

## 5 PROFESSIONAL ACTIVITIES & SERVICE

### Conference and Workshop Organizer:

- 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](#)
- SOC: **High Contrast Imaging from Space** (Baltimore, MD, Nov. 2016) - [website](#)
- LOC: **La très haute dynamique** workshop (Paris, FR, 2012)

### Other Services:

- **Hubble Telescope Allocation Committee** panel support (2016).



- NASA Exoplanet Exploration Program Analysis Group (ExoPAG) member of the **Study Analysis Groups (SAGs) #19** (Theory and Rigorous Contrast Metrics) since 2016 (see Jensen-Clem et al. 2018).
- Organization of the **“Exoplanet Star and Planet Formation” (ESPF)** seminar at STScI each week (2016-2018) - [website](#)
- Development of the **Paris THD optical testbed website** in August 2014.
- IAU member since 2019
- **Referee** for publications in the *AJ*, *A&A*, *MNRAS*, *PASP* and *JATIS*.

## 6 TEACHING & MENTORING

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### PhD supervising:

- **Lucie Leboulleux**, in co-direction between STScI & ONERA, France (Leboulleux, N'Diaye, Mazoyer et al. 2017 SPIE ; Leboulleux et al. 2018 ; Leboulleux et al. 2018 SPIE).
- **Kevin Fogarty**, PhD at JHU and 1 year postdoc at STScI (Fogarty, Pueyo, Mazoyer et al, 2018 AJ ; Fogarty, Mazoyer et al, 2018 SPIE ; Fogarty, Pueyo, Mazoyer et al, 2017 SPIE). Now Caltech Prize Postdoctoral Fellowship in Experimental Physics or Astrophysics.

### Teaching assistant:

Université Paris Diderot – Paris 7	Electronics	2013 - 2014
Université Paris Descartes – Paris 5	Fluid dynamics	2011 - 2012

**La Main à la Pâte:** **2007 - 2008**

- I taught science during 8 months (30h/week) in primary schools in underprivileged neighborhoods (Perpignan, France). **La Main à la pâte** was founded by Nobel Prize winner G. Charpak, astronomer P. Léna and physicist Y. Quéré, of the French Academy of Sciences, to improve the quality of science and technology teaching in primary and middle school.