

Johan MAZOYER

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

1 RESEARCH POSITIONS

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

2 EDUCATION

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

3 GRANTS & AWARDS

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| Carl Sagan Fellowship (NASA Hubble Fellowship Program) – 3 yrs | 2018 |
| Cover of Astronomy & Astrophysics Journal (Volume 564) | 2014 |
| Outstanding Presentation Award (CNES fellow symposium JC ²) | 2013 |
| CNES Doctoral Research Fellowship (French space agency) – 3 yrs | 2011 |
| Ecole Polytechnique Scholarship – 4 yrs | 2007 |

4 ACCEPTED OBSERVATION PROPOSALS (PI)

GEMINI/GPI

- GS-2020A-Q-214 “Scattering properties of two newly imaged Sco-Cen Disks”
- GS-2019A-FT-112 “Do HD 1172 14 and HR 4796 show similar scattering properties?”

5 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 30'000 listeners. Podcast Science received the Golden blog award for best scientific blog in 2012.

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

6 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: Workshop **très haute dynamique** (Paris, 2012)

Other Services:

- NASA Exoplanet Exploration Program Analysis Group (ExoPAG) member of the **Study Analysis Groups (SAGs) #19** (Theory and Rigorous Contrast Metrics).
- **Hubble Telescope Allocation Committee** panel support (2016).
- Organization of the “**Exoplanet Star and Planet Formation**” (ESPF) seminar at STScI each week (2016-2018) - [website](#)
- IAU member since 2019
- **Referee** for publications in the *AJ*, *A&A*, *MNRAS*, *PASP* and *JATIS*.
- Habitable Exoplanet Observatory (HabEx): Contributing Scientist
- Large UV Optical Infrared Surveyor (LUVOIR): Contributing Scientist

7 TEACHING & MENTORING

PhD supervising (co-advisor):

- **Lucie Leboulleux**, in co-direction between STScI & ONERA, France.
- **Kevin Fogarty**, PhD at JHU and 1 year postdoc at STScI. Now Caltech Prize Postdoctoral Fellowship in Experimental Physics or Astrophysics.

Teaching assistant:

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| 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, Fr) for the **La Main à la pâte** organization.

8 SELECTED REFEREED PUBLICATIONS (27 TOTAL)

5. **Mazoyer, J.** ; Pueyo, L. ; N'Diaye, M. et al. (2018), *Active Correction of Aperture Discontinuities-Optimized Stroke Minimization. II. Optimization for Future Missions*, The Astronomical Journal, 155, 8, [ADS Link](#), 7 citations
4. **Mazoyer, J.** ; Boccaletti, A. ; Choquet, É. et al. (2016), *A Symmetric Inner Cavity in the HD 141569A Circumstellar Disk*, The Astrophysical Journal, 818, 150, [ADS Link](#), 9 citations
3. **Mazoyer, J.** ; Boccaletti, A. ; Augereau, J. -C. et al. (2014), *Is the HD 15115 inner disk really asymmetrical?*, Astronomy and Astrophysics, 569, A29, [ADS Link](#), 28 citations
2. **Mazoyer, J.** ; Baudoz, P. ; Galicher, R. et al. (2014), *High-contrast imaging in polychromatic light with the self-coherent camera*, Astronomy and Astrophysics, 564, L1, [ADS Link](#), 23 citations
1. **Mazoyer, J.** ; Baudoz, P. ; Galicher, R. et al. (2013), *Estimation and correction of wavefront aberrations using the self-coherent camera: laboratory results*, Astronomy and Astrophysics, 557, A9, [ADS Link](#), 23 citations