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

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

3 GRANTS & AWARDS

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

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
- Organization of the "Exoplanet Star and Planet Formation" (ESPF) seminar at STScI each week (2016-2018) website
- SOC: High Contrast Imaging from Space (Baltimore, MD, Nov. 2016) website
- LOC: Workshop très haute dynamique (Paris, 2012)

Other Services:

- Habitable Exoplanet Observatory (HabEx): Contributing Scientist
- Large UV Optical Infrared Surveyor (LUVOIR): Contributing Scientist
- IAU Junior member (since 2019)
- 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).
- Referee for publications in the AJ, A&A, MNRAS, PASP and JATIS.

7 TEACHING & MENTORING

PhD supervising (co-advisor):

- Lucie Leboulleux, now PostDoc in Paris Observatory.
- Kevin Fogarty, now Caltech Prize Postdoctoral Fellow in Experimental 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, Fr) for the **La Main à la pâte** organization.

8 SELECTED PUBLICATIONS (60 TOTAL, 7 in first author)

- 1. Chen, C.; Mazoyer, J.; Poteet, C. A., Ren, B. et al. (2020), Multi-Band GPI Imaging of the HR 4796A Debris Disk, The Astrophysical Journal (Accepted, In press)
- 2. 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
- 3. 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
- 4. 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
- 5. 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

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