

Élodie Choquet

Laboratoire d'Astrophysique de Marseille
38 Rue Frédéric Joliot Curie
13013 Marseille FRANCE
☎ +33 495-04-41-16
✉ elodie.choquet@lam.fr

Research Interests

Formation and properties of extrasolar systems: Debris disks; Giant exoplanets; Transition disks.
High angular resolution techniques: Direct imaging; Image processing; Optical interferometry.

Appointments

- 2019 – present **Associate Astronomer.**
Aix Marseille Université, Marseille, France.
Laboratoire d'Astrophysique de Marseille, Marseille, France.
- 2016 – 2018 **Hubble Postdoctoral Fellow.**
Jet Propulsion Laboratory, Pasadena, USA (2016–2017).
California Institute of Technology, Pasadena, USA (2018).
- 2013 – 2015 **Postdoctoral Researcher.**
Space Telescope Science Institute, Baltimore, USA.
- 2009 – 2012 **Graduate Student Researcher.**
Laboratoire d'Études Spatiales et d'Instrumentation en Astrophysique, Meudon, France.

Education & Diplomas

- 2012 **PhD, Astronomy and Astrophysics**, Université Paris 7, France.
Four-telescope fringe tracking for GRAVITY and precision astrometry.
Defended December 17, 2012; Awarded April 16, 2013.
- 2009 **M.Sc, Optical Science**, Institut d'Optique (SupOptique), France.
- 2009 **M.Sc, Optics, Image, and Vision**, Université Jean Monnet, France.
- 2007 **B.Sc, Fundamental Physics**, Université Paris-Sud 11, France.

Honors and Awards

- 2015 **Hubble Fellowship**, NASA.
- 2014 **Team Achievement Award**, STScI.
Jointly with R. Soummer's group for the creation of the R. B. Makidon Optics Lab.
- 2013 **Humboldt fellowship**, Humboldt Foundation (declined).

Publication Summary

36 refereed publications, 5 as first author, 12 within the first three authors.
> 750 total citations, h -index = 13.

Teaching activities

- 2019 – present **Associate Astronomer**, Aix Marseille Université, France.
2nd year of B.Sc in *Physics*. Class: Initiation to the Scientific Method.
2nd year of M.Sc in *Image and Signal Processing*. Class: Instrumental Restoration of Images.
- 2009 – 2012 **Teaching assistant**, Observatoire de Paris, France – Undergrad. to M.Sc level.
- 2015 – present **PhD students and postdocs (co-)supervision.**
- Bin Ren, PhD Student, Johns Hopkins University (2015–2019). PhD supervisor: L. Pueyo.
 - Nicole Wallack, PhD Student, Caltech (2017–present). PhD supervisor: D. Mawet.
 - Bin Ren, Postdoc, Caltech (2019–present).

Professional Services

- 2019 – present Member of the LAM Scientific Council.
- 2017 – present External Reviewer for the HST proposal TAC (Cycles 24, 25, 26, 27).
- 2017 – present Referee for ApJ and A&A.
- 2016 – present Member of the ExoPAG Study Analysis Group 19.
 - 2015 – 2017 Reviewer for the NASA NESSF Graduate Fellowship program.
 - 2013 – 2015 Member of the ExoPAG Study Analysis Group 9.

Grants & Observing Programs

Highlights

- 2017 **JWST strategic Cycle 1 programs.**
 - ERS program, 52h (PI: S. Hinkley): É. Choquet co-lead of the Disk Imaging Package (12h).
 - GTO program, 60h (PI: M. Ressler): É. Choquet in charge of the exoplanets imaging part (19h).
- 2017 **HST medium-class GO program.**
 - PI: É. Choquet, 39 orbits, \$535k, funding 1 postdoc for 2 years.

Programs as PI (selection)

- 2018B **Caltech Keck program**, 0.5 night.
 - Giant Planets & Brown Dwarfs in the Pleiades*
- 2017 **HST GO program**, 39 orbits, \$534,670.
 - Debris Disk Characterization through Spectral Types: Deep Visible-Light Imaging of 9 Systems*
- 2017 **ESO VLT program**, 3h.
 - Unambiguous Water-Ice Identification in HD 32297's debris disk*
- 2017B **NASA Keck program**, 1 night, \$12500.
 - Follow-up of Planet and Brown Dwarf Candidates Discovered in the NICMOS Archive*
- 2017A **NASA Keck program**, 1 night, \$10850.
 - Follow-up of Planet and Brown Dwarf Candidates Discovered in the NICMOS Archive*
- 2014 **HST GO program**, 4 orbits, \$51337.
 - STIS coronagraphy of a debris disk newly discovered around a young M dwarf*

Communications

Invited Talks

- Jan. 2018 AAS conference, **JWST Town Hall**, National Harbor.
- Nov. 2017 *Sagan/Michelson Fellows Symposium*, Caltech.
- Mar. 2017 *Hubble Fellow Symposium*, STScI ([webcast](#)).
- Nov. 2016 Invited Review at the *High Contrast Imaging in Space* Conference, STScI ([webcast](#)).
- Mar. 2016 *Hubble Fellow Symposium*, STScI ([webcast](#)).

Seminars and contributed talks

- 2019 3 contributed talks, 1 seminars (LAM).
- 2018 2 contributed talks, 3 seminars (McGill University, LAM, LESIA).
- 2017 3 contributed talks, 1 seminars (IPAC).
- 2016 5 contributed talks, 2 seminars (Caltech, LAM).
- 2015 4 contributed talks, 2 seminars (Carnegie DTM, STScI).
- 2014 4 contributed talks, 1 seminars (Goddard Space Flight Center).
- 2013 2 contributed talks.
- 2012 1 contributed talks, 1 seminars (MPIA).

Scientific animation

- 2018 SOC member the *Pasadena Astronomy Postdoc Retreat*.
- 2017 SOC member the *ExSoCal* conference.
- 2014 SOC member for the *Habitable Worlds Across Time and Space* symposium.