

# Élodie Choquet

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*Exploration of extrasolar systems with optical and near-infrared high-contrast imaging.  
Specialised in direct-imaging observations and data processing with space telescopes.  
Strong background in optical sciences and wavefront control for ground-based telescopes.*

## Appointments & Experience

- 2019–present **Assistant Astronomer**, OSU Pytheas - AMU - LAM, Marseille.
- 2016–2018 **Hubble Postdoctoral Fellow**, JPL - Caltech, Pasadena.
- 2013–2015 **Postdoctoral Researcher**, STScI, Baltimore.
- 2009–2013 **Graduate Student**, Observatoire de Paris - LESIA, France.

## Education

- 2013 **PhD in Astronomy and Astrophysics**, Université Paris Diderot, France.  
*Four-telescope fringe tracking for GRAVITY and precision astrometry.*  
Advisors: G. Perrin (Observatoire de Paris) & F. Cassaing (ONERA)
- 2009 **Master in Optical Science**, École Supérieure d'Optique, France.  
Recent designation: Institut d'Optique Graduate School
- 2009 **Master in Optics, Image, and Vision**, Université Jean Monnet, France.
- 2007 **Bachelor in Fundamental Physics**, Université Paris-Sud, France.

## Highlights

### Honors and Awards

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

### Observing Programs Highlights

- 2017 **JWST ERS program**, 38.8 h, PI: S. Hinkley, É. Choquet co-lead of the Disk Imaging Group.  
*High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST*
- 2017 **JWST GTO program**, PI: M. Ressler, É. Choquet in charge of the exoplanet imaging part (19h).  
*MIRI Coronagraphic Imaging Observations of Exoplanets*
- 2017 **HST GO program**, 39 orbits, \$534,670, PI: É. Choquet.  
*Debris Disk Dust Characterization through Spectral Types: Deep Visible-Light Imaging of 9 Systems*

### Publication Summary

- 2012–present 21 total refereed publications, 8 as first or critical author.  
> 350 total citations, *h*-index of 8.

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## Teaching activities

- Jul. 2014 **Sagan Exoplanet Summer Workshop**, *Caltech*, Pasadena.  
Assistant for hands-on sessions
- 2009–2012 **Teaching assistant**, *Observatoire de Paris*, France, 1/6 of graduate time.
- Tutor of distant students in *Astronomy and Celestial Mechanics* (undergrad level)
  - Staff member for supervision of telescope observing practical lessons (Master level)
  - Supervisor of students scientific queries to Paris Observatory (undergrad level)
- 2013–present **Student supervision.**
- N. Wallack, Grad. Student, Caltech (2017–present)
  - B. Ren, Grad. Student, John Hopkins University (2015–present)
  - J. B. Hagan, Undergrad Student, STScl, Purdue University (2014–2015)

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## Professional Services

- 2017–2018 HST TAC External Reviewer  
*Cycle 26 (main cycle), cycle 25 (main cycle and mid-cycle), and cycle 24 (mid-cycle)*
- 2015–2017 Reviewer for the *NASA Earth and Space Science Fellowship* (NESSF)
- 2017 SOC member the [Pasadena Astronomy Postdoc Retreat](#)
- 2017 SOC member the [ExSoCal](#) conference
- 2016–present Member of the ExoPAG Study Analysis Group 19  
*Exoplanet imaging metrics*
- 2014 SOC member for the [Habitable Worlds Across Time and Space](#) symposium
- 2013–2015 Member of the ExoPAG Study Analysis Group 9  
*Exoplanet probe to medium scale direct-imaging mission requirements and characteristics*

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## Observing Programs

### Programs as PI

- 2017 **HST GO program**, 39 orbits, \$534,670.  
*Debris Disk Characterization through Spectral Types: Deep Visible-Light Imaging of 9 Systems* (GO-15218)
- 2017 **ESO VLT program**, 3 h.  
*Unambiguous Water-Ice Identification in HD 32297's debris disk* (100.C-0016)
- 2017B **NASA Keck program**, 1 night, \$12500.  
*Follow-up of Planet and Brown Dwarf Candidates Discovered in the NICMOS Archive* (N240)
- 2017A **NASA Keck program**, 1 night, \$10850.  
*Follow-up of Planet and Brown Dwarf Candidates Discovered in the NICMOS Archive* (N166)
- 2014 **HST GO program**, 4 orbits, \$51337.  
*STIS coronagraphy of a debris disk newly discovered around a young M dwarf* (GO-13855)
- 2014 **ESO VLTI program**, 1 night.  
*Observing the close environment of the high-mass X-ray binary Vela X-1 in the mid-IR* (092.D-0474)
- 2012 **NOAO CHARA program**, 6 nights.  
*Systematic analysis of the accretion process in high-mass binaries* (CL2)