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👤	in ORCID	<i>MARSTA</i>	Married	☎	(+1) 667-218-6510

I am currently **AURA STScI Scientist**, member of the **Research Staff** at **STScI. High Contrast & High Angular Resolution** specialist, I am **Instrument Scientist** for **JWST/NIRCam** and the **Coronagraphs Working Group Lead** as well as the **Liaison** for **Roman/CGI**. I enjoy **supervising, teaching & outreach** activities and to **engage the public**, especially young audiences & minorities. Following the **development of instruments** and bringing them into **efficient operations** is my forte.

Research Interests

- ✧ **Planets & Star Formation:** Exoplanets, Brown Dwarfs, Protoplanetary & Debris Disks
- ✧ **High Contrast Imaging, Spectroscopy, Polarimetry: Adaptive Optics & Coronagraphy**
- ✧ **Astronomical Instrumentation & Observing Techniques/Strategies:** Ground & Space

Education

2001-2005	Ph.D in Physics & Astrophysics <i>Doctorat, mention très honorable</i> <i>Centre de Recherche Astronomique de Lyon (CRAL)</i>	<i>Université Claude Bernard Lyon 1</i> <i>(October 2005)</i>
2000-2001	Master's in & Astrophysics (<i>with focuses in plasmas & high angular resolution</i>) <i>D.E.A Astrophysique et Milieux Dilués</i> <i>Institut de Planétologie et d'Astrophysique de Grenoble (IPAG)</i>	<i>Université Joseph Fourier Grenoble 1</i> <i>(July 2001)</i>
1998-2000	Master of Science in Instrumentation Physics	<i>University of Utah</i>
1996-1998	D.U.T Mesures Physiques <i>Diplôme Universitaire de Technologie</i> Undergraduate studies in physics, measurement techniques and instrumentation	<i>Université de Savoie Mont-Blanc</i> <i>(June 1998)</i>

Professional & Research Appointments

10/2020 - Present	Space Telescope Science Institute (STScI) Instruments Division: 5 years, 1 month total	STScI Scientist III 1 year, 11 months
08/2017 - 10/2020		Support Scientist 3 years, 2 months
	<ul style="list-style-type: none"> ✧ JWST NIRCam Branch member, Instrument Scientist, Coronagraphy Lead ✧ JWST Coronagraphs Working Group Lead (NIRCam, MIRI) ✧ Roman (ex WFIRST) CGI Liaison to the Science Investigations Teams ✧ Member of the Research Staff: 20% (nominal) to 30% (with "buy back") of my time 	
2015 - Present	<i>Institut de Planétologie et Astrophysique de Grenoble</i> <i>(IPAG)</i>	Affiliate Researcher 7 years
2009 - 2017	European Southern Observatory (ESO) Directorate of Operations & Science	Operations Staff Astronomer 8 years

Professional & Research Appointments (cont.)

2008 - 2009	Instituto Politécnico Nacional (IPN, Mexico) ➤ <i>Profesor Titular A</i> ➤, <i>Escuela Superior de Física y Matemáticas</i>	Assistant Professor 1 year
2006 - 2008	Instituto de Astronomía (UNAM Mexico) ➤ <i>Investigador Post-doctoral, becario UNAM</i> ➤, <i>Instrumentation Department</i>	Postdoc Researcher 2 years
2001 - 2005	Centre de Recherche Astronomique de Lyon (CRAL) ➤ <i>Doctorant, boursier MENRT</i>	PhD Student 4 years
2001	Institut de Planétologie et d'Astrophysique de Grenoble (IPAG) ➤ <i>Stagiaire</i> at IONIC team, in collaboration with the CEA/LETI	Intern 4 months
1999 - 2000	University of Utah Physics Department, USA ➤ <i>RA, Graduate RA</i> at HiRes Collaboration	Research Assistant 1 year, 6 months

Aeras of Expertise & Skills

<i>JWST</i>	<ul style="list-style-type: none"> ⇨ Manager of 2 Proposal Preparation Tools (Simulations & Visibility for Coronagraphy) ⇨ Exposure Time Calculator requirements, sprints & tests (Coronagraphy) ⇨ Pipeline requirements, tests & improvements (Coronagraphy) ⇨ Commissioning & Operations Rehearsals for NIRC<i>am</i> ⇨ PI of the 3 Commissioning Programs for NIRC<i>am</i> Coronagraphs ⇨ Documentation Lead for JWST High Contrast Imaging (including NIRISS/AMI) 		
<i>Observing & Operations</i>	<ul style="list-style-type: none"> ⇨ Large (>900 nights) Science Operations experience at the VLT, Lick, SPM, CFHT, OHP ⇨ Commissioning & Tests of modes/instruments (AO/coronagraphs/LGS upgrades) ⇨ Instruments Calibrations Plans, Procedures & Manuals (NACO, SPHERE) ⇨ Participation in proposals, strategy making and carrying out observations (countless) ⇨ Expert: NACO ("guru"), SPHERE, HAWKI & SINFONI ⇨ Certified: VIMOS, X-SHOOTER, CRIRES, MUSE, VISIR, KMOS & FORS2 		
<i>Instrumentation</i>	<ul style="list-style-type: none"> ⇨ High Level requirement definitions, system engineering / error budget ⇨ Adaptive Optics, Image quality improvement (phase diversity) and assessment ⇨ Optics (basic design, alignments, waveguides), Fourier analysis, basics of control and electronics, detector characterisation, trouble-shooting, etc. 		
<i>Computing</i>	<ul style="list-style-type: none"> ⇨ Familiar with UNIX/Linux/OSX/Windows, L^AT_EX, some knowledge in C, html, etc. ⇨ Conversent with interpreted languages (Python, Yorick, IDL): data analysis, plotting 		
<i>Teaching</i>	<ul style="list-style-type: none"> ⇨ 4×4h of JWST Master Class on High Contrast Imaging (STScI and Caltech, USA) ⇨ 216h of Optics Th/Labs (IPN/ESFM, Mexico), 64h of Computer Labs (UCBL, France) ⇨ Taught AO for several Postgraduate Programs & Schools (Total of 12h) ⇨ Coordinated the 1st internal AO Training for ESO/LPO Engineers & Astronomers (16h) 		
<i>Supervizing Students</i>	<ul style="list-style-type: none"> ⇨ 2 PhD students (Jos de Boer, Leiden-2018, Blake Pantoja, U.Chile-2019) ⇨ 5 Master's and 6 Bachelor's students in engineering & astronomy 		
<i>Project management & Leadership</i>	<ul style="list-style-type: none"> ⇨ Coordination of a JWST Working Group with ~30 internal & external stakeholders ⇨ Lead of the Roman Exoplanet Imaging Data Challenge (~ 10 people) ⇨ Coordination of Instrument Operations Teams of VLT instruments (~ 15-20 people) ⇨ Several PM trainings completed while at ESO & STScI ⇨ PI/coI-ship of several funded/awarded projects (instrumentation/astronomy) 		
<i>"Soft" skills</i>	<ul style="list-style-type: none"> ⇨ Team player, leader/motivator, great cross-disciplinary/organigram communication skills 		
<i>Language Proficiency</i>	<ul style="list-style-type: none"> ⇨ French: mother tongue 	<ul style="list-style-type: none"> ⇨ English: fluent ⇨ Spanish: fluent 	<ul style="list-style-type: none"> ⇨ German: limited (high school) ⇨ Portuguese: limited (Br)

Community Service & Committees

<i>Referee</i>	Astrophysics & Instrumentation Journals: ApJ, AJ, RevMex, RAS (2011 - Present)
<i>Grant Reviewer</i>	NSF Exoplanets, CONICYT/ALMA Fund (Confidential)
<i>TAC Panelist</i>	Gemini CNTAC - National Time Allocation Committee (2014 - 2016)
<i>Thesis Committees</i>	PhD Defense committee - Blake Pantoja - Univ. de Chile, Chile (2019) PhD Defense committee - Mathias Nowak - Paris Meudon Observatory, France (2019) PhD Defense committee - Jozua de Boer - Leiden Observatory, Netherlands (2018) PhD Defense committee - Jose Luis Aviles Urbiola - INAOE, Mexico (2010)
<i>Conferences</i>	STScI Spring Symposium on Exoplanets: SOC member and Session Chair (2021) Chesapeake Bay Area Exoplanet Meetings (CHEXO): SOC member (2018- Present) Exoplanets, Stars and Planet Formation seminars: organizer (STScI, JHU, 2018-)
<i>& Workshops</i>	ALMA/ESO Workshop: Resolving planet formation in the era of ALMA and extreme AO SOC & LOC Member (2016)
<i>Organizer/Chair</i>	<u>High CONTRast Imaging & Spectroscopy</u> : Chair (ESO/Chile, 2012)
<i>at STScI</i>	Executive Committee of the Science Staff : Elected member (2020 - 2022) Research Support Advisory Committee : Discretionary Funds (2020 - 2022) Postdoc Mentoring Program: Mentor (2019 -) of 3 Postdocs STScI Fellowships Committee (2019) AURA Tenure Track Exoplanet Positions: Conducted Interviews (2019)
<i>at ESO</i>	Science Operations "Adaptive Optics Group" (AOG) Coordinator (2009 - 2017) Panel member for various projects reviews (SPHERE PAE, ERIS Phase A, AOF) Observatory Reviews and one ESO Overview: Participant / Speaker (2010 - 2016)
<i>Community Engagement</i>	Roman Exoplanet Imaging Data Challenge : Coordinator (2018 - 2021) Suite of Python notebooks and simulated datasets presented at 4 "hack"/tutorial events in Baltimore, Pasadena, New York and Tokyo

Honors, Awards & Grants

<i>2015 - Present</i>	Affiliate Researcher (IPAG, Grenoble)
<i>2018 - 2020</i>	Science Evaluation Top Performer (STScI)
<i>2018 - 2019</i>	Functional Top Performer (STScI)
<i>2018 - 2020</i>	DDRF-JDF Grant PI (STScI): \$USD 44,325
<i>2018</i>	Bonus award (STScI): \$USD 2,500
<i>2013 - 2018</i>	Principal Investigator for ESO VLT-VLTI programs: ~ 147h of 8.2m telescope (equivalent to ~ €400-600k worth in operational cost)
<i>2015-2016</i>	1-year ESO PhD Studentship (for Blake Pantoja ~ €21,000
<i>2014</i>	<u>ESO DGDF Grant PI</u> : €2600 (Science Leave)
<i>2013-2014</i>	2-year ESO PhD Studentship (for Jos de Boer ~ €45,000
<i>2012</i>	Exceptional Performance Award (ESO) <u>ESO DGDF Grant PI</u> : €4600 (Student Internship + overseas travel)
<i>2009</i>	SNI Nivel I (Mexico's <i>Sistema Nacional de Investigadores</i>)
<i>2009</i>	<u>ICyTDF Grant co-I</u> : \$MXN 550k /\$USD 40k (robotize the OAN 84cm telescope)
<i>2006-2008</i>	<u>Beca postdoctoral</u> (Postdoc UNAM Fellowship) (UNAM, Mexico)
<i>1999-2000</i>	<u>Graduate Research Assistantship</u> (University of Utah, USA)
<i>2001-2004</i>	<u>Bourse d'Études Doctorales M.E.N.R.T</u> (French Government)
<i>1998-1999</i>	<u>Bourse d'Étude de la Région Rhône-Aples</u> (French Government)

Science Communication, Outreach & Advocacy: Selected Appearances

<i>Selected Outreach Talks</i>	<p>UNAM & UAM: 2 conferences in Spanish for the general public (Mexico, April 2022)</p> <p>Baltimore City Schools "Career Day" 3 Talks for 6th graders (Baltimore, 2019)</p> <p>⇨ "What does an astronomer do? From Ground to Space" (English, 30 min)</p> <p>Planetario de Playa del Carmen "SAYAB" Invited Talk (Mexico, Jan 2016)</p> <p>⇨ "800 noches en el desierto de Atácama" (Spanish, 50 min)</p> <p>Gemini South's AstroDay Public Talk (Chile, Jan 2010)</p> <p>⇨ "Hoy, 2010 la astronomía, en Chile" (Spanish, 40 min)</p> <p>Lycée Franco-Mexicano Public Talk (Mexico, 2009)</p> <p>Museo de la Luz Invited Talk (Mexico, 2009)</p> <p>& many schools (Mexico, 2008-2009)</p> <p>⇨ "Hoy, la astronomía, en Mexico" (Spanish/French, 40 min)</p>
<i>Events</i>	<p>⇨ First Noche de las Estrellas: National Committee Member (Mexico: 2009)</p> <p>⇨ CosmoWiki Initiator with A. Farah Simón (Platform to link Amateur & Pro astronomers)</p>
<i>Diversity & Inclusion</i>	<p>⇨ <i>Ella es Astrónoma</i> Photo Exhibition for the She's an Astronomer IAU Corner Stone Project (2009, International Year of Astronomy): Curator (Photographer: Robin Cerutti)</p>
<i>Television/Radio</i>	<p>⇨ <i>Des Nouveaux Mondes Par Milliers</i> (EOL Prod, Science&Vie TV, 52' Documentary, 2015)</p> <p>⇨ <i>Radio France International</i> (RFI) Interview (French, C. Martin, 2015)</p> <p>⇨ <i>Globo News</i>: mainstream News (Brazil, 9' Subject, N., 2014)</p> <p>⇨ <i>Journal de 20h de France 2</i>: mainstream News (France, 4' Subject, N. Chateaufeuf, 2013)</p> <p>⇨ <i>Tele13 en Terreno: Chile y el mayor telescopio del Mundo</i>: (Chile, 6' Subject, M. Puigredón, 2013)</p>
<i>Press</i>	<p>⇨ <i>World Space Week Podcast</i> (New-Zealand, H. Mogosanu, 2011)</p> <p>⇨ <i>Radio France International</i> (RFI) & <i>The Good Life</i> Articles (French, C. Martin, 2015)</p> <p>⇨ Appearance in Book Chapter "The Milky Way" (English, Gary Fildes, 2016)</p>
<i>Advocacy</i>	<p>⇨ <i>The New York Times</i> on <i>The Night Sky's Satellite Problem</i> (B. Ferreira, 2020)</p> <p>⇨ Defending ground-based astronomy and stargazing with respect to satellite constellations.</p>
<i>Social</i>	<p>Cosmic Diary blog hosted by the SETI Institute Scientist/contributor (2012-2015)</p> <p>ESO Photo Ambassador (2012-Present)</p>

Selected Press Releases & Announcements

2020	<p>ASTRONOMERS FIND JUPITER-LIKE CLOUD BANDS ON CLOSEST BROWN DWARF (NASA/HUBBLESITE)</p> <p>Bands of Clouds Swirl Across Brown Dwarf's Surface (Caltech)</p>
2019	<p>A PAIR OF FLEDGLING PLANETS DIRECTLY SEEN GROWING AROUND A YOUNG STAR (NASA/HUBBLESITE)</p> <p>Bands of Clouds Swirl Across Brown Dwarf's Surface (Caltech)</p>
2018	<p>First Confirmed Image of Newborn Planet Caught with ESO's VLT (ESO)</p>
2015	<p>Mysterious Ripples Found Racing Through Planet-forming Disc (ESO)</p>
2014	<p>First Light for SPHERE Exoplanet Imager (ESO)</p>
2013	<p>The Birth of a Giant Planet? (ESO)</p> <p>Lightest Exoplanet Imaged So Far? (ESO)</p> <p>ALMA Sheds Light on Planet-Forming Gas Streams (ESO & ALMA)</p>
2011	<p>Ten Years of VLT Adaptive Optics (ESO)</p>
2010	<p>New Mode for VLT's NACO to Image Exoplanets (ESO)</p>

Talks, Seminars & Coloquia

- 2022 **SPIE: Invited Plenary Talk** (Montreal, Canada)
JWST: Early results & Instruments / NIRCcam: Commissioning, Performance, EROs
- 2021 **Spring Symposium on Exoplanets** (online): Contributed Talk (STScI)
Results of the Roman Exoplanet Imaging Data Challenge
- 2020 **Online Roman Lecture Series: Invited** (co-Hosted by JPL & STScI)
The Roman Exoplanet Imaging Data Challenge
also presented at Exoplanets III (online), Roman FSWG (Flatiron Inst, NY, USA) and SPIE (online)
- **SPIE Adaptive Optics Systems VII:** Contributed Talk
Planet formation with all flavors of adaptive optics
- 2019 **AMNH: Invited Talk** (New York, USA)
Imaging Gap Carving Planets
- **Caltech:** Contributed Talk (Pasadena, USA)
The 2019 WFIRST Exoplanet Imaging Data Challenge
- **AO4ELT:** Contributed Talk (Quebec City, Canada)
Original Use of MUSE's LTAO To Image Accreting Planets
- 2018 **STScI: TIPS Talk Instruments Division** (Baltimore, USA)
JWST/NIRCcam Coronagraphy
- **Leiden Observatory:** Lunch Talk (Leiden, Netherlands)
- 2017 **Caltech: JWST Proposal Planning Workshop** (Pasadena, USA)
Preparing a proposal with JWST Coronagraphy
- **EXOCLIPSE:** Contributed Talk (Boise, USA)
Reaching a good contrast at small angles: high pace reference differential imaging
- 2017 **LAM: Invited Review Colloquium** (Marseille, France)
VLT(I) Adaptive Optics Review: Science Machines from NACO to SPHERE & beyond
- **ESO Calibration Workshop:** Contributed Talks (Santiago, Chile)
Adaptive Optics Metrics & QC Scheme
SPHERE : Spectro-Polarimetric High-Contrast Exoplanet Research
- 2016 **Caltech:** Exoplanet Group Meeting Talk (Pasadena, USA)
- **TMT HQ:** General Seminar (Pasadena, USA)
Ground based high contrast exploration of exoplanets & their formation site
- **Leiden Observatory: Colloquium,** (Leiden, Netherlands)
Exoplanet Exploration from the Ground
- 2015 **ESO HQ** ESO Adaptive Optics Prospective Meeting (Garching, Germany)
The VLT AO Systems & LGS
- **IPAG** Exoplanets Group's Seminar (Grenoble, France)
High contrast & Interferometric pathfinder search around Luhman 16AB
- **ESO Overview** Talk Paranal stories, small actions, big outcome! (Chile / Germany)
- 2014 **IA-UNAM Instituto de Astronomía: Invited Colloquium** (D.F., Mexico)
High Contrast & High Angular Resolution Astronomy: Past, Present, Future
- **Santander International Summer School: 2 Invited Lectures** (Santiago, Chile)
The VLT Adaptive Optics Systems & LGS
The Adaptive Optics "zoo": SCAO, GLAO, MCAO, XAO, LTAO, MOAO...
- **SPIE Adaptive Optics Systems IV:** Contributed Talk (Montreal, Canada)
NACO, an on-going history: scientific demand & astrometric calibration through the years

Talks, Seminars & Coloquia (cont.)

- 2014 | **STScI: High Contrast Group Meeting Talk** (STScI, USA)
Direct imaging and interferometric followup of our closest low-mass stellar neighbors
- **CALAN U. de Chile Star Formation Group: Invited Seminar** (Santiago, Chile)
Star & Planet Formation at High Contrast, from the Ground
- 2013 | **ETH Institute of Astronomy: Invited Talk** (Zurich, Switzerland)
High Contrast & High Angular Resolution Astronomy: Past, Present, Future
- **Joint ALMA/ESO Workshop**, (Santiago, Chile)
UT4 "Yepun": Past, Present & Future an Adaptive Adventure
- 2012 | **SPIE Adaptive Optics Systems III: Contributed Talk** (Amsterdam, Netherlands)
Image Quality & High Contrast Improvement on VLT/NACO
- **ESO Observatory Review: Invited Talk**, (Paranal Observatory, Chile)
AGPM 4-micron "vortex" Coronagraph on VLT/NACO: SPHERE before SPHERE
 - **AURA/Gemini/CTIO: Invited Coloquium** (La Serena, Chile)
Improvement on VLT/NACO and AO activities on Paranal
- 2011 | **IA-UNAM Instituto de Astronomía: Instrumentation Seminar** (D. F., Mexico)
HAR techniques at the VLT: direct detection of exoplanets
- 2010 | **ESO Chile Instrument Scientist Talk**, (Santiago, Chile)
NACO, VLT/UT4 AO-fed NIR Imager & Spectrometer and more
- 2008 | **INAOE Guillermo Haro Workshop "Science with SASIR"**, (Puebla, Mexico)
Adaptive Optics Follow-ups & Future AO facilities
- 2007 | **Keck Telescope Headquarters** (Waimea, Hawaii, USA)
Polychromatic approach to visible AO & GUIELOA, Mexican AO system
- **CfAO: Center for Adaptive Optics** (Santa-Cruz, USA)
Full sky visible AO observations & HAR panorama in Mexico
 - **CRyA-UNAM** (*Centro de Radioastronomía y Astrofísica*) (Morelia, México)
- 2006 | **Instituto de Astronomía** (IA-UNAM, Distrito Federal, Mexico)
- **LNA**(*Laboratorio Nacional de Astrofísica* **Invited Coloquium**) (Itajuba, Brazil)
 - **Stockholm Observatory Astronomy Department Seminar** (Stockholm, Sweden)
Experimental progress towards full sky visible AO observations

Supervising & Mentoring Students

- 2015- 2019 | PhD co-Director with Dr James Jenkins (U. de Chile/ESO)
Blake Pantoja: *From brown dwarfs to exoplanets, the missing link between radial velocity and direct imaging* (Defended Sept 2019)
- 2013- 2017 | PhD co-Director with Dr Christoph Keller (Leiden U./ESO)
Jozua de Boer: *High Contrast Imaging of Protoplanetary Disks* (Defended Jan 2018)
- 2014- 2015 | Bachelor's Thesis co-Director with Dr Daphne Stam@tudelft.nl (T.U. Delft/ESO)
Rob van Holstein: *Accurate high-contrast imaging polarimetry with SPHERE/IRDIS*
- 2013 | Master's Project Director (T.U. Munich/ESO)
Elisabeth Brunner: *Estimation of the atmospheric coherence time with FADE*
- 2012- 2014 | Master's Internship and sub-contract Mentor/Director(X-Polytechnique/PUC/ESO)
Martin Tourneboeuf: *Development of an Image Quality assessment Tool, Strehl Meter*

Supervising & Mentoring Students (cont.)

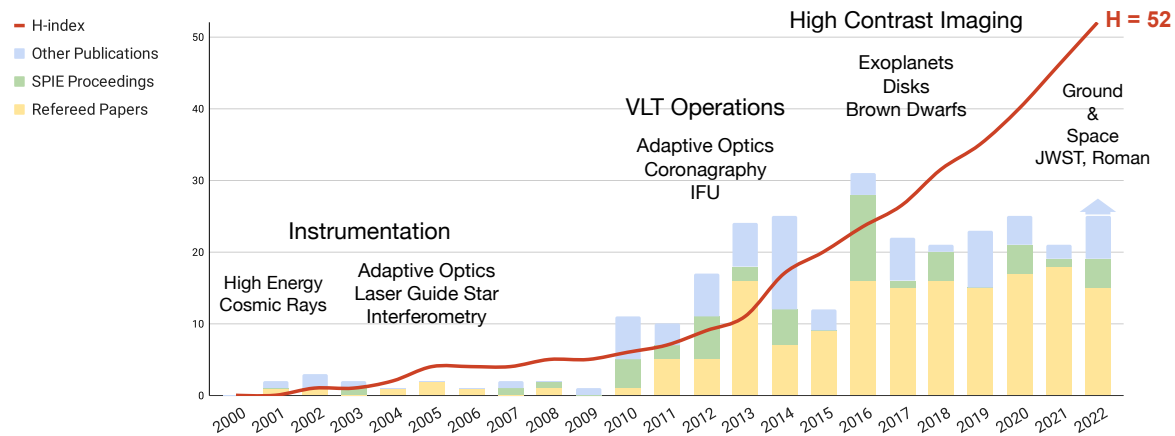
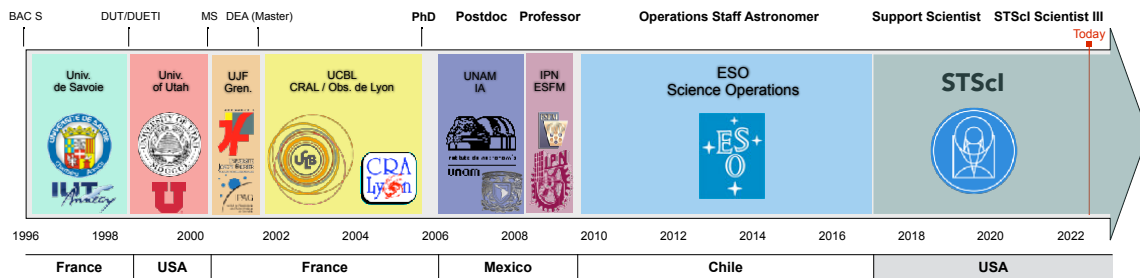
2012	Master's Instrumentation project co-Director with Dr Dimitri Mawet (U. Liege/ESO) Valentin Christiaens: <i>Improving the NACO image quality (PSF) thanks NCPA compensation and via phase diversity</i>
2011	Undergraduate Co-mentor/Director with Dr. Petr Kabath (T.U. Munich/ESO) Felix Rucker: <i>Stellar variability survey in the OGLE2-TR-L9b field & exoplanet transits</i>
2009	Undergraduate Student in Physics: mentor (<i>ESFM-IPN</i> , Mexico) Jurij Mendoza Valencia: <i>Roddier curvature technique and actives optics</i>
2004	Graduate Student Mentor, Master in Physical Engineering (<i>INP Grenoble</i>) Xavier Rondeau: <i>High Angular Resolution in Astronomy</i>
2004	Graduate Student Mentor, Master in Electrical Engineering (<i>INSA Lyon</i>) Belkacem Aberache: <i>Optimization of a pendular seismometer.</i>
2003	Graduate Student Mentor, Master in Electrical Engineering (<i>INSA Lyon</i>) David Grenet: <i>Study of a pendular seismometer to track telescope vibrations.</i>
2003	Undergraduate Student Mentor, Bachelor in Electrical Engineering (<i>I.U.T Lyon</i>) Thierry Jacquemin: <i>Positioning control of a pendular seismometer.</i>

Scientific Collaborations, Professional Memberships

<i>Space Missions</i>	Nancy Grace Roman Telescope Science Investigation Team (SIT) ↗ (PI: Turnbull, CGI Tech Demo, 2019 - 2021) JWST Telescope Scientist GTO ↗, Subject level member for Coronagraphy (PIs: Perrin, Pueyo, Beichman, etc., 2015 - Present) JWST Early Science (ERS Prog 1386) ↗ (PI: Hinkley, 2019 - Present) JWST Strategic Project on Coronagraphy & Wavefront Sensing (PI: Ygouf, 2019 - Present) LIFE: Large Interferometer For Exoplanets ↗ (PI: Quanz, 2018 - Present)
<i>Ground based</i>	ExoGRAVITY: Exoplanets with GRAVITY (PI: Lacour , ESO, 2019-Present)
<i>AO & Interferometry</i>	HIPPO: NACO Filler Survey (PI: Girard , ESO, 40h, 2014-2020) NACO GTO: Invited Member (PI: Launhardt, MPIA, 100 nights, 2015-2019)
<i>Exoplanets & Disks</i>	↪ ISPY Survey: Exoplanets SPHERE GTO: IPAG Affiliate Scientist (PI: Beuzit, IPAG, 300 nights, 2014-2020) ↪ SHINE Survey: Exoplanets ↪ Disk Group: Debris & Protoplanetary Disks SHARDDS Project: External Collaborator (PI: J. Milli, Liège, 2014 - 2016) VORTEX Project ↗: External Collaborator (PI: O. Absil, Liège, 2014 - 2016)
<i>Societies</i>	IAU: International Astronomical Union Individual Member (2011 - present) AAS: American Astronomical Society Full Member(2017 - present) SPIE: International Society for Optical Engineering (2008 - 2011) SF2A (<i>Société Française d'Astronomie et Astrophysique</i>) (2001 - 2005)
<i>Networking</i>	STScI Exoplanets, Star & Planet Formation↗ Seminars: organizer (2019-present) STScI Extrasolar Planetary Systems Imaging Group: co-Lead (2017-present) STScI Star and Planet Formation: member (2018-present) ESO/Chile "Direct Imaging Group: co-founder and active member (2012-2017) Adaptive Optics facebook group↗: Founder/Admin (2013 - present)

Bibliography

Representation of my academic career, 22+ years of research & Technical work in a single chart. My publication record dramatically increased after 2010 when I transitioned from R&D to observational astronomy. View it interactively on [NASA/ADS](#) (155 accepted referred articles, 7,977 citations, H-index=52) as of September 2022:



Selected Recent Publications

2021 Turnbull, M. C.; Zimmerman, N.; **Girard, J.** et al, 2021, JATIS, 7, id. 021218
Community exoplanet imaging data challenge for Roman CGI and starshade rendezvous

2020 Millar-Blanchaer, M.; **Girard, J.**; Karalidi, T. et al, 2020, ApJ, 894, 1, 42, 25.
Detection of Polarization due to Cloud Bands in the Nearby Luhman 16 Brown Dwarf Binary

2019 Haffert, S. et al. **incl. Girard, J.** Nature Astronomy (June 3 2019)
Two accreting proto-planets around the young star PDS 70

2018 **Girard, J.**; Blair, W.; Brooks, B. et al, 2018, SPIE, 0698, 3V
Making good use of JWST's coronagraphs: tools and strategies from a user's perspective

- Pantoja, B.; Jenkins, J. S.; **Girard, J.** et al, 2018, MNRAS, 479, 4958
SAFARI-I. A SPHERE discovery of a super metal-rich M-dwarf companion to the star HD 86006

2017 de Boer, J.; **Girard, J.**; Canovas, H. et al, 2017, MNRAS, 466, 7
BP Piscium: its flaring disc imaged with SPHERE/ZIMPOL

2013 Delorme, P. ; Gagné, J; **Girard, J.** et al, 2013, A&A, 553, L5, 5
Direct-imaging discovery of a 12-14 M_{Jup} object orbiting a young binary system of very low-mass stars

2011 Bouy, H; **Girard, J.** et al, 2011, Astronomy & Astrophysics, 526, A55, 2011.
Adaptive optics observations of the T10 ultracool dwarf UGPS J072227.51-054031.2

2010 Quanz, S.; Meyer, M.; Kenworthy, M.; **Girard, J.**; et al, 2010, ApJ, 722, 49
1st Results from VLT NACO Apodizing Phase Plate: 4 μ m Images of The Exoplanet β Pictoris b

- **Girard, J.**; Kasper, M.; Quanz, S. et al, 2010, SPIE, 7736, 2N
Status and new operation modes of the versatile VLT/NaCo