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I am currently **AURA Scientist**, member of the long-term **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 **Liaison** for the **Roman Coronagraph**. I enjoy **supervising, teaching & outreach** activities and to **engage the public**, especially young audiences. 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

06/2023 - Present	Space Telescope Science Institute (STScI) Instruments Division: 6 years, 8 months	(full) AURA Scientist 9 months
08/2017 - 06/2023	Support Scientist, STScI Scientist III 5 years, 11 months ✧ JWST NIRCam Branch member, Instrument Scientist, Coronagraphy Lead ✧ JWST Coronagraphs Working Group Lead (NIRCam, MIRI) ✧ Roman Coronagraph (CGI) Liaison to the Science Investigations Teams, JPI & IPAC ✧ 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 at IONIC team, in collaboration with the CEA/LETI</i>	Intern 4 months
1999 - 2000	University of Utah Physics Department, USA ↗ <i>RA, Graduate RA at HiRes Collaboration</i>	Research Assistant 1 year, 6 months

Areas 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 NIRCam ↔ PI of the 3 Commissioning & 2 Calibration Programs for NIRCam 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 A&A, RevMex (2011 - Present)
<i>Grant Reviewer</i>	NASA APRA, 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)
<i>& Workshops</i>	Exoplanets, Stars and Planet Formation seminars: organizer (STScI, JHU, 2018-) 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, 2022, 2023) AURA Tenure Track Exoplanet Positions: Conducted Interviews for Roman (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) Python notebooks & simulations, videos of 4 tutorial events in US & Japan

Honors, Awards & Grants

<i>2015 - Present</i>	Affiliate Researcher (IPAG, Grenoble)
<i>2023</i>	AURA Outstanding Achievement Award (JWST Commissioning Team)
<i>2018 - 2020</i>	Science Evaluation Top Performer (STScI)
<i>2018 - 2020, 2023</i>	Functional Top Performer (STScI)
<i>2018 - 2020</i>	DDRF-JDF Grant PI (STScI): \$USD 44,325
<i>2018, 2023</i>	Bonus award (STScI): \$USD 2,500, \$USD 2,300
<i>2013 - 2022</i>	Principal Investigator for JWST Cycle 2 (\$USD 87k), ESO VLT(I) programs: ~ 157h of 8.2m telescope (equivalent to ~ €400-650k 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: 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>⇨ <i>First Noche de las Estrellas</i>✈: National Committee Member (Mexico: 2009)</p> <p>⇨ CosmoWiki Initiator with A. Farah Simón (Platform to link Amateur & Pro astronomers)</p>
<i>Production</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. Chateaufneuf, 2013)</p> <p>⇨ <i>Tele13 en Terreno: Chile y el mayor telescopio del Mundo</i>: (Chile, 6' Subject, M. Puigredón, 2013)</p> <p>⇨ <i>World Space Week Podcast</i>✈ (New-Zealand, H. Mogosanu, 2011)</p>
<i>Press</i>	<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>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

2022	NASA's Webb takes its first-ever direct image of distant world (NASA Blogs, Time, etc.)
2021	Discovery of a disk around young super-Jupiter which may form moons (SciTechDaily)
2020	Astronomers find Jupiter-like cloud bands on closest brown dwarf (NASA/HUBBLESITE)
	Bands of Clouds Swirl Across Brown Dwarf's Surface (Caltech)
2019	A pair of fledgling planets directly seen growing around a young star (NASA/HUBBLESITE)
2018	First confirmed image of newborn planet caught with ESO's VLT (ESO)
2015	Mysterious ripples found racing through planet-forming disc (ESO)
2014	First light for SPHERE exoplanet imager (ESO)
2013	The birth of a giant planet? (ESO)
	Lightest exoplanet imaged so far? (ESO)
	ALMA sheds light on planet-forming gas streams (ESO & ALMA)
2011	Ten years of VLT adaptive optics (ESO)
2010	New mode for VLT's NACO to image exoplanets (ESO)

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.)

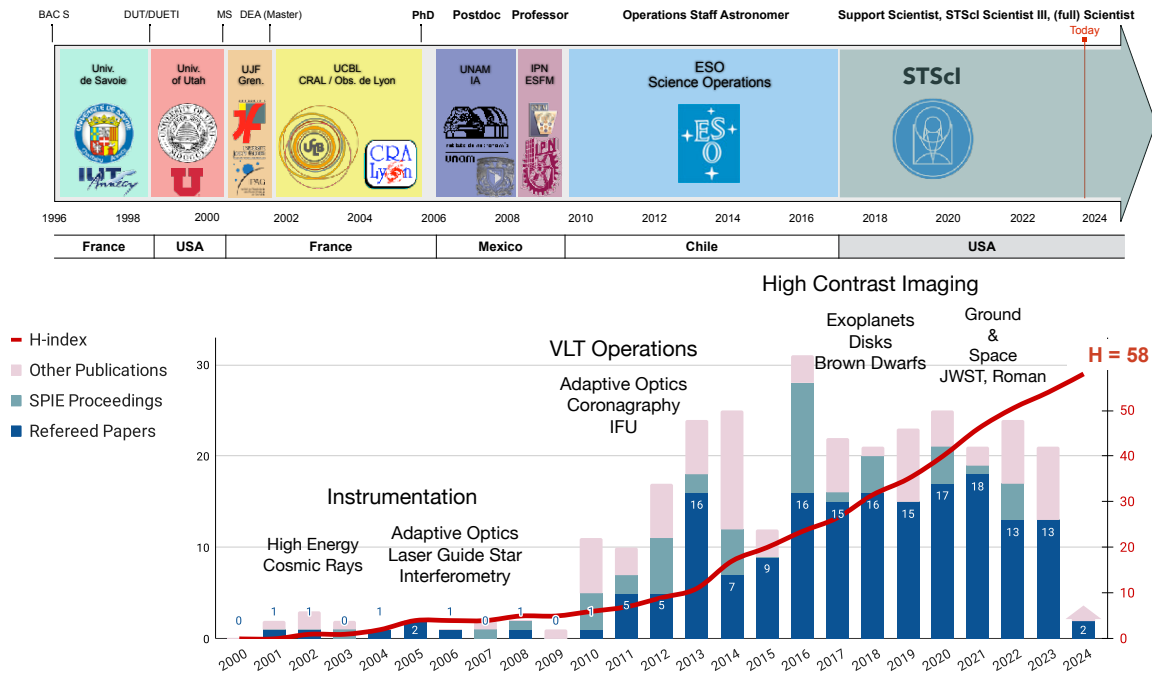
2012	Master's Instrumentation project co-Director with Dr Dimitri Mawet (U. Liege/ESO) Valentin Christiaens: <i>Improving the NACO image quality (PSF) thanks NCPA compensation and via phase diversity</i>
2011	Undergraduate Co-mentor/Director with Dr. Petr Kabath (T.U. Munich/ESO) Felix Rucker: <i>Stellar 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 ↗ : Coronagraph Community Participation Program (CPP) Project Team Member (2023 -), Science Investigation Team Member , Data Challenge Lead ↗ (2019-2021, PI: Turnbull) JWST Telescope Scientist GTO ↗ , Subject level member for Coronagraphy 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

23+ years of research & Technical work in a single chart. My publication record dramatically increased after 2010 transitioning to observational astronomy. View it interactively on [NASA/ADS](#) (171 accepted referred articles ↗, ≥ 10,500 citations, H-index=59) as of March 2024:



Selected Recent Publications

- 2022 **Girard, J.**; Leisenring, J.; Kammerer, J. et al, 2022, SPIE, 121803Q
JWST/NIRCam coronagraphy: commissioning and first on-sky results
- 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 μm 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

Extended References

<i>High Contrast Imaging</i>	Dr. Dimitri Mawet , Professor California Institute of Technology (Caltech) & JPL dmawet@astro.caltech.edu
<i>& JWST Support</i>	Dr. Beth Biller , Professor The University of Edinburgh School of Physics and Astronomy bb@roe.ac.uk
	Dr. Laurent Pueyo , Associate Astronomer with Tenure Space Telescope Science Institute (STScI) pueyo@stsci.edu
<i>Exoplanets & Disks</i>	Dr. Anne-Marie Lagrange , CNRS Research Director Institut de Planétologie et d'Astrophysique de Grenoble (IPAG) lagrange@obs.ujf-grenoble.fr
<i>Adaptive Optics</i>	Dr. Thierry Fusco , Senior Scientist & Adaptive Optics Expert Office National d'Études et de Recherches Aérospatiales (ONERA) & Laboratoire d'Astrophysique de Marseille (LAM) thierry.fusco@onera.fr
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