

# Bibliography

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Summary (compiled on December 31<sup>st</sup> 2016)

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**2184 citations** for a total of **155 references** in the **Astrophysics Data System** (ADS)  
**71** accepted / published **Refereed publications** + 2 recommended for publication .  
**24** Hirsch **h-index** (i.e. 24 publications with  $\geq 24$  citations)  
**20** Refereed papers for which I am in the **first 5 authors** (19 in press or accepted).  
**35 SPIE Instrumentation papers** (including the **2016** ones)

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[ADS beta](#) bibliography enabling **Metrics & visualization tools**  
[Google Scholar](#) bibliography

## Refereed articles

72. *Deep adaptive optics search around the brown dwarf binary LUH 16 AB at solar system scales*  
**Girard**, Delorme, Lannier, Ivanov, Mawet, Bonnefoy, Milli, Mamajek, Melo, Boffin, and Lacour  
Recommended for publication in Astronomy and Astrophysics, **2017**.
71. *Near-infrared scattered light properties of the HR 4796 A dust ring: A measured scattering phase function from 13.6° to 166.6°*  
Milli, Vigan, Mouillet, Lagrange, Augereau, Pinte, Mawet, Schmid, Boccaletti, Chauvin, Matrá, Bazzon, Ménard, Beuzit, Thalmann, Dominik, Henning, Min, Galicher, Bonnefoy, Fusco, **Girard**, de Boer, Janson, Maire, Mesa, and Schlieder  
Recommended for publication in Astronomy and Astrophysics, **2017**.
70. *Three radial gaps in the disk of TW Hydrae imaged with SPHERE*  
van Boekel, Henning, Menu, de Boer, Langlois, Müller, Avenhaus, Boccaletti, Schmid, Thalmann, Benisty, Dominik, Ginski, **Girard**, Gisler, Lobo Gomes, Menard, Min, Pavlov, Pohl, Quanz, Rabou, Roelfsema, Sauvage, Teague, Wildi, and Zurlo  
Accepted for publication in The Astrophysical Journal, arXiv:1610.08939, **2017**.
69. *VLT/SPHERE robust astrometry of the HR8799 planets at milliarcsecond-level accuracy*  
*Orbital architecture analysis with PyAstrOFit*  
Wertz, Absil, Gómez González, Milli, **Girard**, Mawet, and Pueyo  
Accepted for publication in Astronomy and Astrophysics, arXiv:1610.04014, **2017**.
68. *BP Piscium: its flaring disk imaged with SPHERE/ZIMPOL*  
de Boer, **Girard**, Canovas, Min, Sitko, Ginski, Jeffers, Mawet, Milli, Rodenhuis, Snik, and Keller  
Monthly Notices of the Royal Astronomical Society, 466, L7, **2017**.

67. [\*First scattered-light images of the gas-rich debris disk around 49 Ceti.\*](#)  
Choquet, Milli, Wahhaj, Soummer, Roberge, Augereau, Booth, Absil, Boccaletti, Chen, Debes, del Burgo, Dent, Ertel, **Girard**, Gofas-Salas, Golimowski, Gómez González, Hagan, Hibon, Hines, Kennedy, Lagrange, Matrà, Mawet, Mouillet, N'Diaye, Perrin, Pinte, Pueyo, Rajan, Schneider, Wolff, and Wyatt  
[ArXiv e-prints](#), arXiv:1612.07320, **2016**.
66. [\*Upper limits for Mass and Radius of objects around Proxima Cen from SPHERE/VLT.\*](#)  
Mesa, Zurlo, Milli, Gratton, Desidera, Langlois, Vigan, Bonavita, Antichi, Avenhaus, Baruffolo, Biller, Boccaletti, Bruno, Cascone, Chauvin, Claudi, De Caprio, Fantinel, Farisato, **Girard**, Giro, Hagelberg, Incorvaia, Janson, Kral, Lagadec, Lagrange, Lessio, Meyer, Peretti, Perrot, Salasnich, Schlieder, Schmid, Scuderi, Sissa, Thalmann, and Turatto  
[ArXiv e-prints](#), arXiv:1611.10362, **2016**.
65. [\*Discovery of a low-mass companion inside the debris ring surrounding the F5V star HD 206893.\*](#)  
Milli, Hibon, Christiaens, Choquet, Bonnefoy, Kennedy, Wyatt, Absil, Gómez González, del Burgo, Matrà, Augereau, Boccaletti, Delacroix, Ertel, Dent, Forsberg, Fusco, **Girard**, Habraken, Huby, Karlsson, Lagrange, Mawet, Mouillet, Perrin, Pinte, Pueyo, Reyes, Soummer, Surdej, Tarricq, and Wahhaj  
[Astronomy and Astrophysics](#), 597, L2, **2016**.
64. [\*MASSIVE: A Bayesian analysis of giant planet populations around low-mass stars.\*](#)  
Lannier, Delorme, Lagrange, Borgniet, Rameau, Schlieder, Gagné, Bonavita, Malo, Chauvin, Bonnefoy, and Girard  
[Astronomy and Astrophysics](#), 596, A83, **2016**.
63. [\*The SHARDDS survey: First resolved image of the HD 114082 debris disk in the Lower Centaurus Crux with SPHERE.\*](#)  
Wahhaj, Milli, Kennedy, Ertel, Matrà, Boccaletti, del Burgo, Wyatt, Pinte, Lagrange, Absil, Choquet, Gómez González, Kobayashi, Mawet, Mouillet, Pueyo, Dent, Augereau, and Girard  
[Astronomy and Astrophysics](#), 596, L4, **2016**.
62. [\*Multiple rings in the transition disk and companion candidates around RXJ1615.3-3255. High contrast imaging with VLT/SPHERE.\*](#)  
[de Boer](#), Salter, Benisty, Vigan, Boccaletti, Pinilla, Ginski, Juhasz, Maire, Messina, Desidera, Cheetham, **Girard**, Wahhaj, Langlois, Bonnefoy, Beuzit, Buenzli, Chauvin, Dominik, Feldt, Gratton, Hagelberg, Isella, Janson, Keller, Lagrange, Lannier, Menard, Mesa, Mouillet, Mugrauer, Peretti, Perrot, Sissa, Snik, Vogt, Zurlo, and Consortium  
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61. [\*Direct detection of scattered light gaps in the transitional disk around HD 97048 with VLT/SPHERE.\*](#)  
Ginski, Stolker, Pinilla, Dominik, Boccaletti, de Boer, Benisty, Biller, Feldt, Garufi, Keller, Kenworthy, Maire, Ménard, Mesa, Milli, Min, Pinte, Quanz, van Boekel, Bonnefoy, Chauvin, Desidera, Gratton, **Girard**, Keppler, Kopytova, Lagrange, Langlois, Rouan, and Vigan  
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60. *Calibration of quasi-static aberrations in exoplanet direct-imaging instruments with a Zernike phase-mask sensor. II. Concept validation with ZELDA on VLT/SPHERE.*  
N'Diaye, Vigan, Dohlen, Sauvage, Caillat, Costille, **Girard**, Beuzit, Fusco, Blanchard, Le Merrer, Le Mignant, Madec, Moreaux, Mouillet, Puget, and Zins  
Astronomy and Astrophysics, 592, A79, **2016**.
59. *Sparse aperture masking at the VLT II. Detection limits for the eight debris disks stars  $\beta$  Pic, AU Mic, 49 Cet,  $\eta$  Tel, Fomalhaut,  $g$  Lup, HD181327 and HR8799.*  
Gauchet, Lacour, Lagrange, Ehrenreich, Bonnefoy, **Girard**, and Boccaletti  
Accepted in Astronomy and Astrophysics, arXiv:1606.08498, **2016**.
58. *Discovery of concentric broken rings at sub-arcsec separations in the HD 141569A gas-rich, debris disk with VLT/SPHERE.*  
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Astronomy and Astrophysics, 590, L7, **2016** .
57. *An M-dwarf star in the transition disk of Herbig HD142527; Physical parameters and orbital elements.*  
Lacour, Biller, Cheetham, Greenbaum, Pearce, Marino, Tuthill, Pueyo, Mamajek, **Girard**, Sivaramakrishnan, Bonnefoy, Baraffe, Chauvin, Olofsson, Juhasz, Benisty, Pott, Sicilia-Aguilar, Henning, Cardwell, Goodsell, Graham, Hibon, Ingraham, Konopacky, Macintosh, Oppenheimer, Perrin, Rantakyro, Sadakuni, and Thomas  
Astronomy and Astrophysics, 590, A90, **2016**.
56. *SAXO: the extreme adaptive optics system of SPHERE (I) system overview and global laboratory performance.*  
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Journal of Astronomical Telescopes, Instruments, and Systems, 2, 025003, **2016**.
55. *Luminous blue variables: An imaging perspective on their binarity and near environment.*  
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52. *First light of the VLT planet finder SPHERE. II. The physical properties and the architecture of the young systems PZ Telescopii and HD 1160 revisited.*

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51. *First light of the VLT planet finder SPHERE. I. Detection and characterization of the sub-stellar companion GJ 758 B.*

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50. *A narrow, edge-on disk resolved around HD 106906 with SPHERE.*

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Astronomy and Astrophysics, 586, L8, **2016**.

49. [\*Variability and dust filtration in the transition disk J160421.7-213028 observed in optical scattered light.\*](#)  
Pinilla, de Boer, Benisty, Juhász, de Juan Ovelar, Dominik, Avenhaus, Birnstiel, **Girard**, Huelamo, Isella, and Milli  
Astronomy and Astrophysics, 584, L4, **2015**.
48. [\*Fast-moving features in the debris disk around AU Microscopii.\*](#)  
Boccaletti, Thalmann, Lagrange, Janson, Augereau, Schneider, Milli, Grady, Debes, Langlois, Mouillet, Henning, Dominik, Maire, Beuzit, Carson, Dohlen, Engler, Feldt, Fusco, Ginski, **Girard**, Hines, Kasper, Mawet, Ménard, Meyer, Moutou, Olofsson, Rodrigues, Sauvage, Schlieder, Schmid, Turatto, Udry, Vakili, Vigan, Wahhaj, and Wisniewski  
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47. [\*The VLT/NaCo large program to probe the occurrence of exoplanets and brown dwarfs at wide orbits. III. The frequency of brown dwarfs and giant planets as companions to solar-type stars.\*](#)  
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Accepted in Astronomy and Astrophysics, arXiv:1510.08453, **2015**.
46. [\*Pluto's Atmosphere from Stellar Occultations in 2012 and 2013.\*](#)  
Dias-Oliveira, Sicardy, Lellouch, Vieira-Martins, Assafin, Camargo, Braga-Ribas, Gomes-Júnior, Benedetti-Rossi, Colas, Decock, Doressoundiram, Dumas, Emilio, Fabrega Polleri, Gil-Hutton, Gillon, **Girard**, Hau, Ivanov, Jehin, Lecacheux, Leiva, Lopez-Sisterna, Mancini, Manfroid, Maury, Meza, Morales, Nagy, Opitom, Ortiz, Pollock, Roques, Snodgrass, Soulier, Thirouin, Vanzi, Widemann, Reichart, LaCluyze, Haislip, Ivarsen, Dominik, Jørgensen, and Skottfelt  
The Astrophysical Journal, 811, 53, **2015**.
45. [\*Confirmation and Characterization of the Protoplanet HD 100546 b - Direct Evidence for Gas Giant Planet Formation at 50 AU.\*](#)  
Quanz, Amara, Meyer, **Girard**, Kenworthy, and Kasper  
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44. [\*The inner environment of Z Canis Majoris: High-contrast imaging polarimetry with NaCo.\*](#)  
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43. [\*The dust disk and companion of the nearby AGB star L<sub>2</sub> Puppis. SPHERE/ZIMPOL polarimetric imaging at visible wavelengths.\*](#)  
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41. [\*New constraints on the dust surrounding HR 4796A.\*](#)  
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40. [\*The VLT/NaCo large program to probe the occurrence of exoplanets and brown dwarfs at wide orbits. II. Survey description, results, and performances.\*](#)  
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39. [\*Deep Thermal Infrared Imaging of HR 8799 bcde: New Atmospheric Constraints and Limits on a Fifth Planet.\*](#)  
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38. [\*Discovery of a Companion Candidate in the HD 169142 Transition Disk and the Possibility of Multiple Planet Formation.\*](#)  
Reggiani, Quanz, Meyer, Pueyo, Absil, Amara, Anglada, Avenhaus, **Girard**, Carrasco Gonzalez, Graham, Mawet, Meru, Milli, Osorio, Wolff, and Torrelles  
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37. [\*Searching for visual companions of close Cepheids. VLT/NACO lucky imaging of Y Oph, FF Aql, X Sgr, W Sgr, and  \$\eta\$  Aql.\*](#)  
Gallenne, Kervella, Mérand, Evans, **Girard**, Gieren, and Pietrzyński  
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36. [\*Very deep images of the innermost regions of the  \$\beta\$  Pictoris debris disc at L'.\*](#)  
Milli, Lagrange, Mawet, Absil, Augereau, Mouillet, Boccaletti, **Girard**, and Chauvin  
Astronomy and Astrophysics, 566, A91, **2014**.
35. [\*Ground-based transit observations of the super-Earth GJ 1214 b.\*](#)  
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33. [\*Possible astrometric discovery of a substellar companion to the closest binary brown dwarf system WISE J104915.57-531906.1.\*](#)  
Boffin, Pourbaix, Mužić, Ivanov, Kurtev, Beletsky, Mehner, Berger, **Girard**, and Mawet  
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31. [\*Searching for companions down to 2 AU from  \$\beta\$  Pictoris using the L'-band AGPM coronagraph on VLT/NACO.\*](#)  
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29. [\*A Multiplicity Census of Intermediate-mass Stars in Scorpius-Centaurus.\*](#)  
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22. *L'-band AGPM vector vortex coronagraph's first light on VLT/NACO. Discovery of a late-type companion at two beamwidths from an F0V star.*  
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Janson, Jayawardhana, **Girard**, Lafrenière, Bonavita, Gizis, and Brandeker  
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16. *High-contrast imaging of the close environment of HD 142527. VLT/NaCo adaptive optics thermal and angular differential imaging.*  
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## Notes

1. Articles in preparation, even in an advanced stage are not mentioned in this document.
2. It is common for instrumentation related work to be published in SPIE proceedings. These papers often reflect final references without related refereed articles in A-ranked journals.
3. The experimental research and instrumental developments I carried out during my Phd and my young researcher's career (2000- 2008) represent a considerable amount of work that was unfortunately not publication material. Building innovative experiments from scratch with limited manpower is interesting but time consuming and not always followed by acceptable, rewarding results. It helped me develop many different skills: basic optical design/alignment, procurement, electronics trouble shooting, data processing, physical interpretation of results and parameters, etc. At the upstream of big international consortia that build bigger, more robust instruments, this type of experimental work can provide great inputs in the long run.