

Laurent A. Pueyo

CONTACT INFORMATION	Associate Astronomer STScI 3700 San Martin Dr Baltimore, MD 21218 USA	<i>Mobile:</i> +1-213-399-9838 <i>Office:</i> +1-410-338-2450 <i>E-mail:</i> pueyo@stsci.edu
RESEARCH INTERESTS	Direct imaging of exo-planets. Giant exoplanet formation. Characterization of sub-stellar atmospheres. Design and technology maturation of future high-contrast instruments.	
EDUCATION	Princeton University , Princeton, New Jersey, USA Ph.D., Mechanical and Aerospace Engineering Ecole Normale Supérieure Cachan , Cachan, France Admitted to the Aggregation Applied Physics Bachelor, Université d'Orsay & ENS Cachan,	September 2008 June 2001 June 2000
HONORS AND AWARDS	NASA group achievement award <i>NASA wide recognition, for outstanding performance in developing and optimizing WFIRST formulation design reference</i> STScI Team Achievement Award <i>Institute wide recognition, for JWST OTIS testing support</i> Maryland Young Outstanding Scientist <i>Statewide recognition across all scientific fields</i> STScI individual science achievement award <i>Institute wide recognition, for outstanding and innovative contributions to instrumentation and observational capabilities in high-contrast imaging</i> STScI Team Achievement Award <i>Institute wide recognition, for implementing the JWST ETCs in time for CIP releases</i> STScI Team Achievement Award <i>Institute wide recognition, for successfully undertaking a remarkable effort to enable ground-breaking science from JWST coronagraphs</i> AURA Team Achievement Award <i>AURA wide recognition, for contributions to the Gemini Planet Imager and discovery of the 51 Eridani B exoplanet</i> STScI Team Achievement Award <i>Institute wide recognition, for creation of the Russell B. Makidon optics laboratory</i> Sagan Postdoctoral Fellowship <i>~ 5 fellows per year across in exoplanet research. ~ 100 applicants.</i> JPL Group Achievement Award <i>Center wide recognition, for outstanding contributions to the Gemini Planet Imager Cal team</i> NASA Postdoctoral fellowship <i>~ 50-80 fellows per year across all divisions and centers of NASA. ~ 300-500 applicants.</i> Harari Doctoral Fellowship, Princeton University <i>Department wide recognition, for outstanding research as a senior graduate student</i> Crocco teaching Prize, Princeton University <i>Department wide recognition, for outstanding performance as an assistant in instruction</i> Daniel and Florence Guggenheim Fellowship <i>Department wide recognition, for outstanding performance in first year of graduate studies</i>	2017 2018 2016 2016 2017 2015 2015 2014 2010 2009 2008 2007 2005 2004

RESEARCH
POSITIONS

- Space Telescope Science Institute**, Baltimore, MD July 2013 - Current
Associate Astronomer
Duties:
- Chair JWST Coronagraphs Working Group, in charge of planning JWST high-contrast operations.
 - Co-Chair WFIRST CGI Post-Processing and data analysis Working Group, in charge of preparing WFIRST CGI analysis tools.
 - Instrument lead for LUVOIR Coronagraph.
 - Co-Founder of Russel Makidon Optics Laboratory.
- Johns Hopkins University**, Baltimore, MD August 2010 - July 2013
Sagan Postdoctoral Fellow
- Topic: *“Direct characterization of exo-planetary systems”*
 - Sponsor: Prof. Colin Norman & Dr. Remi Soummer
- Jet Propulsion Laboratory**, Pasadena, CA August 2008 - August 2010
NASA Postdoctoral fellow
- Topic: *“High-contrast imaging technology for exo-earth detection”*
 - Sponsors: Dr. Stuart Shaklan

TEACHING
EXPERIENCE

- Johns Hopkins University**
Guest lecturer Planets Life and the universe Spring 2011 to Fall 2017
Guest lecturer Fourier Optics Spring 2011 to present
- Princeton University**
Graduate Student instructor Mathematical Methods: complex variables and Partial Differential Equations, Prof. L. Martinelli Spring 2006
Graduate Student instructor Thermodynamics Laboratory Fall 2005
Graduate Student instructor Introduction to Engineering Dynamics, Conducted curriculum re-development with Prof. N. J. Kasdin Spring 2005
- Mentoring** As a research astronomer at STScI, I mentor young scientists in our local STScI/JHU community on a variety of specific projects. When applicable, I also serve as their primary academic advisor.
- JHU Undergraduates:* Matt Sheckles (2011-2014), Jordan Hoffman (2013-2014).
- Graduate Students (primary advisor):*
- Jonathan Aguilar (2014-2019, primary)
 - Bin Ren (2014-19, JHU, primary)
 - David Ely (2013-18, JHU, primary)
- Graduate Students (other):* Alexandra Greenbaum (2012-2016, JHU), Kevin Fograty (2014-2017, JHU), Lucie Leboulleux (2015-18, Marseille)
- Post Doctoral fellows (primary advisor):*
- Johan Mazoyer (2014-16, primary)
 - Marie Ygouf (2014-16, primary)
- Post Doctoral fellows (other):* Mamadou N'Diaye (2013-17), Elodie Choquet (2013-16), Kevin Fograty (2017-18)

Graduate Committees:

External reviewer for M. Hart (JHU) PhD committee 2018
External reviewer for F. Cantalloube (Grenoble University) PhD committee 2016
External reviewer on J. Mazoyer (Paris University) PhD committee 2014
External reviewer for P.Bourget (Marseille University) PhD committee 2014

GRANTS

AWARDED AS PI

STScI DDRF *Characterization of archetypal exoplanetary systems with Direct Imaging* (2018-2019),

80NSSC18K0820 Science-PI *Ultra-Stable Large Telescope Research and Analysis (ULTRA)* (2018-19) , PI. S. Knight (Ball Aerospace)

NASA NNX14AD33G Co-PI *Active Compensation of Aperture Discontinuities: laboratory demonstration* (2015-2017),

WFIRST Contract, Co-I and then PI *Post-Processing for WFIRST-CGI* (2013-2017)

JPL 1496556 NXC *Application of the Active Compensation of Aperture Discontinuities to future space based observatories* (2014-2016)

HST Cycle 21 GO-13331 *Confirmation and characterization of young planetary companion hidden in the HST NICMOS archive* (2014-2017)

HST Cycle 19 AR-12652 Co-PI *Exoplanet Search in the HST NICMOS coronagraphic archive* (2011-2014)

NAS7-03001 “*Direct characterization of exo-planetary systems*”, NASA Sagan Fellowship, Prof. C. Norman Admin PI.

AWARDED AS CO-I

SAT TDEM DDRF, Co-I *TRL4 Demonstration of Segmented-Telescope Coronagraphy* (2019-2021), PI Dr. R. Soummer,

STScI DDRF, Co-I *Demonstrating Segmented-Telescope Coronagraphy by 2019 in Preparation for LUVOIR* (2018-2017), PI Dr. R. Soummer,

STScI DDRF, Co-I *Exoplanet Characterization ToolKit (ExoCTK)* (2017-2019), PI Dr. K Stevenson,

JWST-GTO, Co-I *Telescope Scientist Guaranteed Time* (2017-2023) PI Dr. M. Mountain (AURA)

WFIRST SIT, Co-I *Optimizing the Science Return of the WFIRST coronagraph* (2016-2020), PI Dr. Maggie Turnbull (SETI)

WFIRST SIT, Co-I, *Optimizing the Science Return of the WFIRST coronagraph*, 2016-2020, PI Dr. Bruce Macintosh (Stanford)

ExEP Contract, Co-I *Segmented Coronagraph Design and Analysis*, (2015-2018), PI Dr. R. Soummer (STScI)

NASA 10-APRA10-0109, Co-I *Exoplanet Direct Imaging With On-Axis Segmented apertures in Space*, (2011-2015), PI Dr. R. Soummer (STScI)

OBSERVING
PROGRAMS

Co-I **HST Cycle 25 GO-15128** *Debris Disk Dust Characterization through Spectral Types: Deep Visible-Light Imaging of Nine Systems*, HST-STIS, PI Dr. Elodie Choquet, 45 Orbits

Co-I **JWST-GTO Telescope Scientist**, PI- Dr Matt Mountain, 60 hrs. In charge of coordinating exo-planets and disk characterization observations.

Co-I **JWST-GTO NIRISS**, PI- Dr Rene Doyon, AMI team, 20 hrs (transition disks).

Co-I **2015B-2016B-NOAO-LLP** *Deep characterization of debris disk*, PI- Dr Christine Chen, Gemini- GPI Long and Large program, 90 hrs.

Co-I **2015A-0156 NOAO** *Does the HR 4796 Debris Disk Contain Icy Grains?*, PI- Dr Christine Chen, Gemini- GPI, 0.8 nights

Co-I **HST Cycle 22 GO-13855** *STIS Coronagraphy of a Debris Disk Newly Discovered Around a Young M Dwarf*, HST-STIS, PI Dr. Elodie Choquet, 4 Orbits

Co-I **HST Cycle 22 GO-13826** *The Orion Nebula Cluster as a Paradigm of Star Formation*, HST-WFC3, PI Dr. Massimo Roberto, 52 Orbits

Co-I **HST Cycle 22 GO-13753** *Pushing to 8 AU in the archetypal protoplanetary disk of TW-Hya*, HST-STIS, PI Dr. John Debes, 8 Orbits

Co-I **ESO Cycle 93** *Planets or brown dwarfs? Using C/O as a tracer of formation channels in Upper Scorpius*, PI- Dr Jacqueline Radigan, VLT- SINFONI, 2 nights

PI **HST Cycle 21 GO-13331** *Confirmation and characterization of young planetary companion hidden in the HST NICMOS archive*, HST-WFC3, 12 Orbits

Co-I **HST Cycle 21 GO-13446** *Massive Stars and their Siblings: the Extreme End of the Companion Mass Function*, PI Dr. Selma de Mink, HST-WFC3, 4 Orbits

Co-I **HST Cycle 21 GO-13299** *Silver Linings: Using Cloud Maps to Understand the L/T Spectral Transition*, PI Dr. Jacqueline Radigan, HST-WFC3, 15 Orbits

Co-I **HST Cycle 21 GO-13381** *A High Contrast Direct Imaging Search for Disks and Companions Across the ACS, STIS and NICMOS Archives*, PI Dr. Marshall Perrin, HST-STIS, 16 Orbits

PI **ESO Cycle 92** *Adaptive Optics Followup of New Sub-Stellar Companions Discovered in the HST NICMOS Archive.*, VLT- SINFONI, 1.5 nights

Co-I **ESO Cycle 92** *Gravitational instability versus core accretion: calibrating and using C/O as a tracer of formation channels in Taurus*, PI Dr. Jacqueline Radigan, VLT- SINFONI, 2 nights

Co-I **HST Cycle 19 GO-12511** *Determining the Atmospheric Properties of Directly Imaged Planets*, (2011-2013), PI Dr. T. Barman (Lowell Observatory)

Co-I **HST Cycle 19 AR-12630** *Are Dust Grains in Debris Disks Porous Aggregates?*, (2011-2013), PI C. Chen (STScI)

Co-I *The GPI Exoplanet Survey (GPIES): A Comprehensive Understanding of Planetary System Evolution and Diversity*, 960 hours of Gemini time, PI Dr. B. Macintosh (Stanford)

Co-I *100 nights survey of exo-planets at Palomar using P3K and P1640*, Leads: Dr. R. Oppenheimer (AMNH), Dr. C. Beichman (NExScI), Prof. L. Hillenbrand (Caltech), Dr. G. Vashith (JPL)

**SELECTED
TALKS**

JWST coronagraphy talks

JWST GTO workshop (Pasadena CA)	Dec 2017
AAS 230 JWST Townhall (Austin, TX)	June 2017
JWST proposal planning workshop (Baltimore, MD)	May 2017
High Contrast Imaging in SpaceWorkshop (Baltimore, MD)	Nov 2016
Exploring universe with JWST II (Montreal, Canada)	Oct 2016
ESAC JWST users meeting (Madrid, Spain)	Sept 2016
JWST GTO workshop (Victoria, Canada)	May 2016
JWST Proposal preparation workshop (Baltimore, MD)	March 2016

Research talks

Gemini Observatory Science Meeting,	Invited talk, July 2018
OSA anual congress on imaging science (Orlando)	Plenary, June 2018
IEEE workshop on metrology for aeropsace (Rome)	Invited talk, June 2018
Princeton Plasma Physics Lab (Princeton)	Colloquium, Jan 2018
Lorentz Workshop on optimal Coronagraphs (Leiden)	Keynote talk, Sept 2017
Exoclipse Conference (Boise)	Invited talk, Aug 2017
Sagan Summer Workshop	Review Lecture July 2016
WFIRST 2016 Conference (Pasadena)	Invited talk, Feb 2016
Quantum Astronomy 2015 (Sidney)	Invited talk, August 2015
Spirit of Lyot Conference (Montreal)	Review talk, June 2015
WFIRST 2014 Conference (Pasadena)	Invited talk, Nov 2014
Leiden Coronagraph Workshop	Invited talk, Oct 2014
MAD Nucleus Workshop (Santiago)	Review talk, Oct 2014
Sagan Summer Workshop	Three Lectures, July 2014
Gordon Conference on Imaging	Review talk, June 2014
IPAG Planetary Science	Colloquium, December 2013
SPIE Conference on exo-planet detection methods	Invited talk, August 2013
STScI	Special Colloquium, October 2012
Johns Hopkins University	LCSR seminar , April 2012
NASA Ames	ACES seminar , April 2012
UC Berkeley	Adpative Optics seminar , April 2012
Laboratoire d'Astrophysique de Marseille,	Exo-planets Seminar, January 2012
NASA Goddard Space Flight Center	Exo-planets Seminar, November 2011
University of Michigan	Astronomy Colloquium, November 2011
Laboratoire d'Astrophysique de Grenoble	Exo-planet seminar April 2011
LESIA (Paris)	Exo-planet seminar, October 2010
Jet Propulsion Laboratory	Postdoctoral Colloquium, March 2010

**COMMUNITY
SERVICE**

Referee for the Astrophysical Journal, A & A, Optical Society of America Journals	
Reviewer for NWO astronomy proposals (Dutch NSF)	2013
STScI May symposium SOC member	2014
JHU Graduate admissions committee	2015-now
NSF Advanced Technologies and Instrumentation proposal reviewer	2015
NASA Post Doctoral Program proposal reviewer	2015
NASA NESSF proposal reviewer	2015
NASA ESI proposal panel member	2016

Co-organizer of STScI Star and Planet Formation seminar series 2014-now
Co-Chair of “High Contrast Imaging from Space” workshop at STScI 2016
Member of LUVUOIR STDT 2016-2019

MEDIA

<https://www.youtube.com/watch?v=n9BJmU1NAoA>
<http://hubblesite.org/news-release/news/2016-40/95-interview>
<https://www.youtube.com/watch?v=iJEYIOzKGxc>
<http://spie.org/x111927.xml?ArticleID=x111927>
<https://www.youtube.com/watch?v=iNXU3dQvrwl>
<http://hubblesite.org/news-release/news/2014-08/91-astronomical>
<http://hubblesite.org/news-release/news/2014-16>
<http://hubblesite.org/newscenter/archive/releases/2011/29/full/>
<http://spie.org/x35167.xml/>
<http://spie.org/x35167.xml/>

OPEN SOURCE SOFTWARE

1. Wang, Jason J.; Ruffio, Jean-Baptiste; De Rosa, Robert J.; Aguilar, Jonathan; Wolff, Schuyler G.; **Pueyo, Laurent**, “pyKLIP: PSF Subtraction for Exoplanets and Disks”, Astrophysics Source Code Library, record ascl:1506.001. *All papers denoted as [†] are using this software.*

All papers denoted as ^a are based on work carried out by directly mentored JHU graduate students and STScI post-docs.

All papers denoted as ^b are based on work carried out by directly mentored graduate students and post-docs within the GPI collaboration.

REFEREED
PUBLICATIONS
Totals:

99 JOURNAL

31 H INDEX

99. Ruffio, Jean-Baptiste; Mawet, Dimitri; Czekala, Ian; Macintosh, Bruce; De Rosa, Robert J.; Ruane, Garreth; Bottom, Michael; **Pueyo, Laurent**; Wang, Jason J.; Hirsch, Lea; Zhu, Zhaohuan; Nielsen, Eric L., “A Bayesian Framework for Exoplanet Direct Detection and Non-detection”, AJ Vol. 156, Issue 5, article id. 196, 2018.
- 98.† Wang, Jason J.; Graham, James R.; Dawson, Rebekah; Fabrycky, Daniel; De Rosa, Robert J.; **Pueyo, Laurent**; Konopacky, Quinn; Macintosh, Bruce; Marois, Christian; Chiang, Eugene; and GPI team, “Dynamical Constraints on the HR 8799 Planets with GPI”, AJ Vol. 156, Issue 5, article id. 192, 2018.
- 97.† Meshkat, Tiffany; Nilsson, Ricky; Aguilar, Jonathan; Vasisht, Gautam; Oppenheimer, Rebecca; Su, Kate Y. L.; Cady, Eric; Lockhart, Thomas; Matthews, Christopher; Dekany, Richard; Leisenring, Jarron; Ygouf, Marie; Mawet, Dimitri; **Pueyo, Laurent**; Beichman, Charles, “A deep search for planets in the inner 15 au around Vega”, Accepted for publication in AJ, 2018.
96. **Pueyo, Laurent**, “Direct Imaging as a Detection Technique for Exoplanets”, chapter in Handbook of Exoplanets, Springer, 2018.
- 95.^a Leboulleux, Lucie; Sauvage, Jean-Francois; **Pueyo, Laurent**; Fusco, Thierry; Soummer, Rémi; Mazoyer, Johan; Sivaramakrishnan, Anand; N’Diaye, Mamadou; Fauvarque, Olivier, “Pair-based Analytical model for Segmented Telescopes Imaging from Space (PASTIS) for sensitivity analysis”, accepted by JATIS (arXiv:1807.00870), 2018.
- 94.† Esposito, Thomas M.; Duchêne, Gaspard; Kalas, Paul; and GPI team including **Pueyo, L.**, “Direct Imaging of the HD 35841 Debris Disk: A Polarized Dust Ring from Gemini Planet Imager and an Outer Halo from HST/STIS”, AJ, Vol 156, Issue 2, article id. 47, 2018.
93. Poteet, Charles A.; Chen, Christine H.; Hines, Dean C.; Perrin, Marshall D.; Debes, John H.; **Pueyo, Laurent**; Schneider, Glenn; Mazoyer, Johan; Kolokolova, Ludmilla, “Space-based Coronagraphic Imaging Polarimetry of the TW Hydrae Disk: Shedding New Light on Self-shadowing Effects”, ApJ, 860, Issue 2, article id. 115, 2018
- 92.^a † Greenbaum, Alexandra Z.; **Pueyo, Laurent**; Ruffio, Jean-Baptiste; GPI “Spectra of HR 8799 c, d, and e from 1.5 to 2.4 μm with KLIP Forward Modeling”, Vol 155, Issue 6, article id. 226, 2018.
91. Kelly, Patrick L.; Diego, Jose M.; Rodney, Steven; Kaiser, including **Pueyo, Laurent**; “Extreme magnification of an individual star at redshift 1.5 by a galaxy-cluster lens”, Nature Astronomy, Vol 2, p. 334-342, 2018.
- 90.^a Ren, Bin; Dong, Ruobing; Esposito, Thomas M.; **Pueyo, Laurent**; Debes, John H.; Poteet, Charles A.; Choquet, Clodie; Benisty, Myriam; Chiang, Eugene; Grady, Carol A.; Hines, Dean C.; Schneider, Glenn; Soummer, Rémi, “ A Decade of MWC 758 Disk Images: Where Are the Spiral-arm-driving Planets?, ApJL, Vol 857, Issue 1, article id. L9., 2018.

89. Gagné, Jonathan; Mamajek, Eric E.; Malo, Lison; Riedel, Adric; Rodriguez, David; Lafrenière, David; Faherty, Jacqueline K.; Roy-Loubier, Olivier; **Pueyo, Laurent**; Robin, Annie C.; Doyon, René, “BANYAN. XI. The BANYAN ? Multivariate Bayesian Algorithm to Identify Members of Young Associations with 150 pc”, *ApJ*, Vol 856, Issue 1, article id. 23, 2018.
88. Choquet, E.; Bryden, G.; Perrin, M. D.; Soummer, R.; Augereau, J.-C.; Chen, C. H.; Debes, J. H.; Gofas-Salas, E.; Hagan, J. B.; Hines, D. C.; Mawet, D.; Morales, F.; **Pueyo, L.**; Rajan, A.; Ren, B.; Schneider, G.; Stark, C. C.; Wolff, S., “HD 104860 and HD 192758: Two Debris Disks Newly Imaged in Scattered Light with the Hubble Space Telescope”, *ApJ*, Vol 854, Issue 1, article id. 53, 2018.
- 87.† Crepp, Justin R.; Principe, David A.; Wolff, Schuyler; Giorla Godfrey, Paige A.; Rice, Emily L.; Cieza, Lucas; **Pueyo, Laurent**; Bechter, Eric B.; Gonzales, Erica J., “GPI Spectroscopy of the Mass, Age, and Metallicity Benchmark Brown Dwarf HD 4747 B”, *ApJ*, Vol 853, article id. 192, 11 pp, 2018.
- 86.^{a†} Wang, Jason J.; Perrin, Marshall D.; Savransky, Dmitry, and GPI team including **Pueyo, L.**, “Automated data processing architecture for the Gemini Planet Imager Exoplanet Survey”, *JASTIS*, Volume 4, id. 018002, 2018.
- 85.^a Ren, Bin; Pueyo, **Laurent**; **Ben Zhu**, Guangtun; Debes, John; Duchene, Gaspard, “Non-negative Matrix Factorization: Robust Extraction of Extended Structures”, *ApJ*, Vol 852, Issue 2, article id. 104, 2018.
- 84.^a Mazoyer, Johan; **Pueyo, Laurent**; N’Diaye, Mamadou; Fogarty, Kevin; Zimmerman, Neil; Soummer, Remi; Shaklan, Stuart; Norman, Colin, “Active correction of aperture discontinuities - optimized stroke minimization II: optimization for future missions”, *AJ*, Vol 155, Issue 1, article id. 8, 2018.
- 83.^a Mazoyer, J.; **Pueyo, L.**; N’Diaye, M.; Fogarty, K.; Zimmerman, N.; Leboulleux, L.; St. Laurent, K. E.; Soummer, R.; Shaklan, S.; Norman, C., “Active correction of aperture discontinuities - optimized stroke minimization I: a new adaptive interaction matrix algorithm”, *AJ*, Vol 155, Issue 1, article id. 7, 2018.
- 81.^a Fogarty, Kevin; **Pueyo, Laurent**; Mazoyer, Johan; N’Diaye, Mamadou, “Polynomial Apodizers for Centrally Obscured Vortex Coronagraphs”, *AJ*, Vol 154, Issue 6, article id. 240, 2018.
- 80.† Nielsen, Eric L.; De Rosa, Robert J.; Rameau, Julien; Wang, Jason J., and GPI team including **Pueyo, L.**, “Evidence that the Directly-Imaged Planet HD 131399 Ab is a Background Star”, Accepted by *AJ*.
79. Bacchus, E.; Parry, I. R.; Oppenheimer, R.; Aguilar, J.; Beichman, C, and P1640 team including **Pueyo, L.**, “Project 1640 observations of the white dwarf HD 114174 B”, *MNRAS*, Vol 469, Issue 4, 2017.
- 78.† Rajan, Abhijith; Rameau, Julien; De Rosa, Robert J.; Marley, Mark S.; and GPI team including **Pueyo, L.**, “Characterizing 51 Eri b from 1 to 5 μm : A Partly Cloudy Exoplanet”, *AJ*, Vol 154, Issue 1, article id. 10, 2017.

77. Sahu, Kailash C.; Anderson, Jay; Casertano, Stefano; Bond, Howard E.; Bergeron, Pierre; Nelan, Edmund P.; **Pueyo, Laurent**; Brown, Thomas M.; Bellini, Andrea; Levay, Zoltan G.; Sokol, Joshua; Dominik, Martin; Calamida, Annalisa; Kains, Noe; Livio, Mario, “Relativistic deflection of background starlight measures the mass of a nearby white dwarf star”, *Science*, Volume 356, Issue 6342, 2017.
- 76.^{†,b} Ruffio, Jean-Baptiste; Macintosh, Bruce; Wang, Jason J.; **Pueyo, Laurent**; and the GPI team, “Improving and Assessing Planet Sensitivity of the GPI Exoplanet Survey with a Forward Model Matched Filter”, *AJ*, Volume 842, Issue 1, article id. 14, 2017.
- 75.^{†,b} Follette, Katherine B.; Rameau, Julien; Dong, Ruobing; **Pueyo, Laurent**, and the GPI+MagAO teams, “Complex Spiral Structure in the HD 100546 Transitional Disk as Revealed by GPI and MagAO”, *AJ*, Vol 153, Issue 6, article id. 264, 2017.
- 74.^b Rameau, Julien; Follette, Katherine B.; Pueyo, Laurent; Marois, Christian, and the GPI team, “An Optical/Near-infrared Investigation of HD 100546 b with the Gemini Planet Imager and MagAO”, *AJ*, Volume 153, Issue 6, article id. 244, 2017.
73. Blunt, Sarah; Nielsen, Eric L.; De Rosa, Robert J.; Konopacky, Quinn M.; Ryan, Dominic; Wang, Jason J.; **Pueyo, Laurent**; Rameau, Julien; Marois, Christian; Marchis, Franck; Macintosh, Bruce; Graham, James R.; Duchêne, Gaspard; Schneider, Adam C., “Orbits for the Impatient: A Bayesian Rejection-sampling Method for Quickly Fitting the Orbits of Long-period Exoplanets”, *AJ*, Vol 153, Issue 5, article id. 229, 2017.
72. Johnson-Groh, Mara; Marois, Christian; De Rosa, Robert J.; Nielsen, Eric L., and GPI team including **Pueyo, L.**, “Integral Field Spectroscopy of the Low-mass Companion HD 984 B with the Gemini Planet Imager”, *AJ*, Volume 153, Issue 4, article id. 190, 2017.
- 71.^{†,b} Chilcote, Jeffrey; **Pueyo, Laurent**; De Rosa, Robert J.; Vargas, Jeffrey and GPI team, “1-2.4 μ m Near-IR Spectrum of the Giant Planet β Pictoris b Obtained with the Gemini Planet Imager”, *AJ*, Vol 153, Issue 4, article id. 182, 2017.
70. Nilsson, R.; Veicht, A.; Giorla Godfrey, P. A.; Rice, E. L.; Aguilar, J.; **Pueyo, L** and Project 1640 team, “Project 1640 Observations of Brown Dwarf GJ 758 B: Near-infrared Spectrum and Atmospheric Modeling”, *ApJ*, , Volume 838, Issue 1, article id. 64, 2017.
69. Debes, John H.; Poteet, Charles A.; Jang-Condell, Hannah; Gaspar, Andras; Hines, Dean; Kastner, Joel H.; **Pueyo, Laurent**; Rapson, Valerie; Roberge, Aki; Schneider, Glenn; Weinberger, Alycia J., “Chasing Shadows: Rotation of the Azimuthal Asymmetry in the TW Hya Disk”, *ApJ*, Vol 835, Issue 2, article id. 205, 2017.

68. Wertz, Olivier; Absil, Olivier; Gomez Gonzalez, Carlos. A.; Milli, Julien; Girard, Julien. H.; Mawet, Dimitri; **Pueyo, Laurent**, “VLT/SPHERE robust astrometry of the HR8799 planets at milliarcsecond-level accuracy Orbital architecture analysis with PyAstrOFit”, *A & A*, Vol 598, id.A83, 2017.
- 67.^a Choquet, Elodie; Milli, Julien; Wahhaj, Zahed; Soummer, Rómi, and SHARDDS + ALICE teams including **Pueyo, L.**, “First Scattered-light Images of the Gas-rich Debris Disk around 49 Ceti”, *ApJL*, Vol 834, Issue 2, article id. L12, 2017.
66. Milli, J.; Higon, P.; Christiaens, V.; Choquet, Č.; Bonnefoy, M., and SHARDDS team including **Pueyo, L.**, “Discovery of a low-mass companion inside the debris ring surrounding the F5V star HD 206893”, *A & A*, Vol 597, id.L2, 2017.
- 65.[†] Nielsen, Eric L.; De Rosa, Robert J.; Wang, Jason; Rameau, Julien, and GPI team including **Pueyo, L.**, “Dynamical Mass Measurement of the Young Spectroscopic Binary V343 Normae AaAb Resolved With the Gemini Planet Imager”, *AJ*, Vol 152, Issue 6, article id. 175, 2016.
64. Wahhaj, Zahed; Milli, Julien, and SHARDDS team including **Pueyo, L.**, “The SHARDDS survey: First resolved image of the HD 114082 debris disk in the Lower Centaurus Crux with SPHERE”, *A & A*, Vol 596, id.L4, 2016.
- 63.[†] Millar-Blanchaer, Maxwell A.; Wang, Jason J.; Kalas, Paul, and GPI team including **Pueyo, L.**, “Imaging an 80 au Radius Dust Ring around the F5V Star HD 157587”, *AJ*, Vol 152, Issue 4, id. 128, 2016.
- 62.^{†,b} Wang, Jason J.; Graham, James R.; **Pueyo, Laurent**, “The Orbit and Transit Prospects for β Pictoris b Constrained with One Milliarcsecond Astrometry”, *AJ*, Vol 152, Issue 4, id. 97, 2016.
- 61.[†] Esposito, Thomas M.; Fitzgerald, Michael P.; Graham, and GPI team including **Pueyo, L.**, “Bringing “The Moth” to Light: A Planet-Sculpting Scenario for the HD 61005 Debris Disk”, *AJ*, Vol 152, Issue 4, id. 85, 2016.
- 60.[†] Konopacky, Quinn M.; Rameau, Julien; Duchene, Gaspard; Filippazzo, Joseph C.; Giorla Godfrey, Paige A.; Marois, Christian; Nielsen, Eric L.; **Pueyo, Laurent**; Rafikov, Roman R.; Rice, Emily L.; Wang, Jason J., and GPI team, “Discovery of a Substellar Companion to the Nearby Debris Disk Host HR 2562”, *ApJL*, Vol 829, Issue 1, id. L4, 2016.
- 59.[†] Draper, Zachary H.; Duchene, Gaspard; Millar-Blanchaer, and GPI team including **Pueyo, L.**, “The Peculiar Debris Disk of HD 111520 as Resolved by the Gemini Planet Imager”, *ApJ*, Accepted 2016.
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