

Jerome Pitogo de Leon, Ph.D.

Postdoctoral researcher at The University of Tokyo

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Overview

Research: Published 74 refereed papers mainly about exoplanets with 1,438 total citations, and an h-index of 24, as of 2024-11-15¹.

Teaching: Conducted 2 introductory courses in Astronomy for undergraduates; half of the class pursued graduate studies both in the Philippines and abroad.

Mentorship: Guided a dynamic research group consisting of 1 PhD, 3 master, and 2 undergraduate students in cutting-edge exoplanet research initiatives. Developed publicly available code for Astronomy research and instruction.

Outreach: Presented several invited talks over the years, contributing to both research and public outreach. Founded Astronomy group for fostering a passion for the cosmos.

Education

PhD, 2021 Department of Astronomy, The University of Tokyo, Japan.

Title: Discovery and Characterization of Transiting Exoplanets with Diverse Radii and Ages ([online version](#)). Advisor: [Prof. Motohide Tamura](#)

MSc, 2018 Department of Astronomy, The University of Tokyo, Japan.

Title: Multi-color Simultaneous Transit Observations of Low Density Hot Jupiters ([online version](#)). Advisor: Prof. Motohide Tamura

BSc, 2013

Department of Physics, University of the Philippines, Los Baños, Laguna, Philippines.

Title: Thermal Differential and Image Analysis of a Fabricated 11-cm Solar Telescope using an Active-Passive Cooling System. Advisor: [Dr. Rogel Mari Sese](#)

Full-time Work Experience

Project Research Assistant (2023/4 - Present)

Department of Multi-Disciplinary Sciences, Graduate School of Arts and Sciences, The University of Tokyo, Japan

Role: Spearheading the discovery and in-depth characterization of young transiting exoplanets using the TESS telescope. Advisor: [Prof. Norio Narita](#) (Refer to [de Leon et al. 2023](#))

Project Research Assistant (2021/4 - 2023/3)

Department of Astronomy, Graduate School of Science, The University of Tokyo, Japan

Role: Led an international group of astronomers towards the discovery of 37 new transiting exoplanets using the Kepler telescope. Advisor: [Prof. Motohide Tamura](#) (Refer to [de Leon et al. 2021](#))

Research Development Assistant (2013/4-2014/6)

¹Publication data collected from [NASA Astrophysics Data System](#)

Regulus SpaceTech, Inc., Los Baños, Laguna, Philippines

Role: Initiated the software development for automating solar telescope control and data analysis. Advisor: Dr. Rogel Sese

Temporary Positions

Remote Lecturer (2021/6 - 2021/10)

Faculty of Aerospace Engineering, School of Engineering & Architecture, Ateneo de Davao University, Philippines

Role: Crafted and conducted lectures on Introduction to Astronomy & Astronomical Data Analysis.

Technical Assistant (2018/10-2019/3)

Engineering Department, The University of Tokyo, Japan

Role: Developed innovative image processing software for stitching featureless high-resolution images Advisor: Assoc. Prof. Tomohiko Hayakawa (Refer to Murakami et al. 2018)

Research Assistant (2017/4-2018/3)

Department of Astronomy, The University of Tokyo, Japan

Role: Developed a robust pipeline for modeling and analyzing multi-wavelength transit light curves and provided mentorship to new research group members.

Research Student (2015/9-2016/3)

Department of Astronomy, Graduate University for Advanced Studies (SOKENDAI), Japan

Role: Worked on data reduction and analysis of high-resolution astronomical images and contributed to scientific report writing. Advisor: Dr. Satoshi Mayama

Intern (2014/7-2014/9)

Academia Sinica Institute for Astronomy and Astrophysics (ASIAA), Taipei, Taiwan

Role: Developed an image processing pipeline for the analysis of high-resolution images of a young forming star using the 8-m Subaru telescope. Advisor: Dr. Michihiro Takami (Refer to de Leon et al. 2015)

Publications

refereed: 74 / first author: 3 / citations: 1,438 / h-index: 24 (as of 2024-11-15)

- ⁷⁴ Peláez-Torres, A.; Esparza-Borges, E.; Pallé, E.; Parviainen, H.; *et al.* (incl. **de Leon, J. P.**), 2024, *Validation of up to seven TESS planet candidates through multi-colour transit photometry using MuSCAT2 data*, *Astronomy and Astrophysics*, **690** (arXiv:2409.07400)
- ⁷³ Ghachoui, M.; Rackham, B. V.; Dévora-Pajares, M.; Chouqar, J.; *et al.* (incl. **de Leon, J. P.**), 2024, *TESS discovery of two super-Earths orbiting the M-dwarf stars TOI-6002 and TOI-5713 near the radius valley*, *Astronomy and Astrophysics*, **690** (arXiv:2408.00709)
- ⁷² Hayashi, Yuya; Narita, Norio; Fukui, Akihiko; Changeat, Quentin; *et al.* (incl. **de Leon, J. P.**), 2024, *Low abundances of TiO and VO on the dayside of KELT-9 b: Insights from ground-based photometric observations*, *Publications of the Astronomical Society of Japan*, **76**, 1131 (arXiv:2408.15698)
- ⁷¹ Orell-Miquel, J.; Murgas, F.; Pallé, E.; Mallorquín, M.; *et al.* (incl. **de Leon, J. P.**), 2024, *The MOPYS project: A survey of 70 planets in search of extended He I and H atmospheres: No evidence of enhanced evaporation in young planets*, *Astronomy and Astrophysics*, **689**

- (arXiv:2404.16732) [7 citations]
- 70 Gaidos, E.; Parviainen, H.; Esparza-Borges, E.; Fukui, A.; *et al.* (incl. **de Leon, J. P.**), 2024, *Climate change in hell: Long-term variation in transits of the evaporating planet K2-22b*, *Astronomy and Astrophysics*, **688** (arXiv:2407.17372)
- 69 Gillon, Michaël; Pedersen, Peter P.; Rackham, Benjamin V.; Dransfield, Georgina; *et al.* (incl. **de Leon, J. P.**), 2024, *Detection of an Earth-sized exoplanet orbiting the nearby ultracool dwarf star SPECULOOS-3*, *Nature Astronomy*, **8**, 865 (arXiv:2406.00794) [2 citations]
- 68 Barkaoui, K.; Schwarz, R. P.; Narita, N.; Mistry, P.; *et al.* (incl. **de Leon, J. P.**), 2024, *Three short-period Earth-sized planets around M dwarfs discovered by TESS: TOI-5720 b, TOI-6008 b, and TOI-6086 b*, *Astronomy and Astrophysics*, **687** (arXiv:2405.06350)
- 67 Schulte, Jack; Rodriguez, Joseph E.; Bieryla, Allyson; Quinn, Samuel N.; *et al.* (incl. **de Leon, J. P.**), 2024, *Migration and Evolution of giant ExoPlanets (MEEP). I. Nine Newly Confirmed Hot Jupiters from the TESS Mission*, *The Astronomical Journal*, **168**, 32 (arXiv:2401.05923)
- 66 Kuzuhara, Masayuki; Fukui, Akihiko; Livingston, John H.; Caballero, José A.; *et al.* (incl. **de Leon, J. P.**), 2024, *Gliese 12 b: A Temperate Earth-sized Planet at 12 pc Ideal for Atmospheric Transmission Spectroscopy*, *The Astrophysical Journal*, **967** (arXiv:2405.14708)
- 65 Hori, Yasunori; Fukui, Akihiko; Hirano, Teruyuki; Narita, Norio; *et al.* (incl. **de Leon, J. P.**), 2024, *The Discovery and Follow-up of Four Transiting Short-period Sub-Neptunes Orbiting M Dwarfs*, *The Astronomical Journal*, **167**, 289 (arXiv:2405.12637)
- 64 Hord, Benjamin J.; Kempton, Eliza M. -R.; Evans-Soma, Thomas M.; Latham, David W.; *et al.* (incl. **de Leon, J. P.**), 2024, *Identification of the Top TESS Objects of Interest for Atmospheric Characterization of Transiting Exoplanets with JWST*, *The Astronomical Journal*, **167**, 233 (arXiv:2308.09617) [13 citations]
- 63 Mori, Mayuko; Ikuta, Kai; Fukui, Akihiko; Narita, Norio; *et al.* (incl. **de Leon, J. P.**), 2024, *Characterization of starspots on a young M-dwarf K2-25: multiband observations of stellar photometric variability and planetary transits*, *Monthly Notices of the Royal Astronomical Society*, **530**, 167 (arXiv:2403.13946)
- 62 Murgas, F.; Pallé, E.; Orell-Miquel, J.; Carleo, I.; *et al.* (incl. **de Leon, J. P.**), 2024, *Wolf 327b: A new member of the pack of ultra-short-period super-Earths around M dwarfs*, *Astronomy and Astrophysics*, **684** (arXiv:2401.12150) [4 citations]
- 61 Serrano Bell, J.; Díaz, R. F.; Hébrard, G.; Martioli, E.; *et al.* (incl. **de Leon, J. P.**), 2024, *TOI-1199 b and TOI-1273 b: Two new transiting hot Saturns detected and characterized with SOPHIE and TESS*, *Astronomy and Astrophysics*, **684** (arXiv:2402.07861)
- 60 Parviainen, H.; Murgas, F.; Esparza-Borges, E.; Peláez-Torres, A.; *et al.* (incl. **de Leon, J. P.**), 2024, *TOI-2266 b: A keystone super-Earth at the edge of the M dwarf radius valley*, *Astronomy and Astrophysics*, **683** (arXiv:2401.11879) [2 citations]
- 59 Kang, H.; Chen, G.; Pallé, E.; Murgas, F.; *et al.* (incl. **de Leon, J. P.**), 2024, *Simultaneous multicolour transit photometry of hot Jupiters HAT-P-19b, HAT-P-51b, HAT-P-55b, and HAT-P-65b*, *Monthly Notices of the Royal Astronomical Society*, **528**, 1930 (arXiv:2401.03715) [2 citations]
- 58 Mallorquín, M.; Goffo, E.; Pallé, E.; Lodieu, N.; *et al.* (incl. **de Leon, J. P.**), 2023, *TOI-1801 b: A temperate mini-Neptune around a young M0.5 dwarf*, *Astronomy and Astrophysics*, **680** (arXiv:2310.10244) [6 citations]
- 57 Luque, R.; Osborn, H. P.; Leleu, A.; Pallé, E.; *et al.* (incl. **de Leon, J. P.**), 2023, *A resonant*

- sextuplet of sub-Neptunes transiting the bright star HD 110067*, *Nature*, **623**, 932 (arXiv:2311.17775) [18 citations]
- 56 Hartman, J. D.; Bakos, G. Á.; Csubry, Z.; Howard, A. W.; *et al.* (incl. **de Leon, J. P.**), 2023, *TOI 4201 b and TOI 5344 b: Discovery of Two Transiting Giant Planets around M-dwarf Stars and Revised Parameters for Three Others*, *The Astronomical Journal*, **166**, 163 (arXiv:2307.06809) [11 citations]
- 55 Palle, E.; Orell-Miquel, J.; Brady, M.; Bean, J.; *et al.* (incl. **de Leon, J. P.**), 2023, *GJ 806 (TOI-4481): A bright nearby multi-planetary system with a transiting hot low-density super-Earth*, *Astronomy and Astrophysics*, **678** (arXiv:2301.06873) [8 citations]
- 54 Gan, Tianjun; Cadieux, Charles; Jahandar, Farbod; Vazan, Allona; *et al.* (incl. **de Leon, J. P.**), 2023, *A Massive Hot Jupiter Orbiting a Metal-rich Early M Star Discovered in the TESS Full-frame Images*, *The Astronomical Journal*, **166**, 165 (arXiv:2307.07329) [9 citations]
- 53 Orell-Miquel, J.; Lampón, M.; López-Puertas, M.; Mallorquín, M.; *et al.* (incl. **de Leon, J. P.**), 2023, *Confirmation of an He I evaporating atmosphere around the 650-Myr-old sub-Neptune HD 235088 b (TOI-1430 b) with CARMENES*, *Astronomy and Astrophysics*, **677** (arXiv:2307.05191) [12 citations]
- 52 Kageitani, Taiki; Narita, Norio; Kimura, Tadahiyo; Hirano, Teruyuki; *et al.* (incl. **de Leon, J. P.**), 2023, *The mass of TOI-519 b: A close-in giant planet transiting a metal-rich mid-M dwarf*, *Publications of the Astronomical Society of Japan*, **75**, 713 (arXiv:2304.14703) [12 citations]
- 51 **de Leon, J. P.**; Livingston, J. H.; Jenkins, J. S.; Vines, J. I.; *et al.*, 2023, *A sub-Neptune transiting the young field star HD 18599 at 40 pc*, *Monthly Notices of the Royal Astronomical Society*, **522**, 750 (arXiv:2210.08179) [4 citations]
- 50 Morello, G.; Parviainen, H.; Murgas, F.; Pallé, E.; *et al.* (incl. **de Leon, J. P.**), 2023, *TOI-1442 b and TOI-2445 b: Two potentially rocky ultra-short period planets around M dwarfs*, *Astronomy and Astrophysics*, **673** (arXiv:2201.13274) [9 citations]
- 49 Vines, Jose I.; Jenkins, James S.; Berdiñas, Zaira; Soto, Maritza G.; *et al.* (incl. **de Leon, J. P.**), 2023, *A dense mini-Neptune orbiting the bright young star HD 18599*, *Monthly Notices of the Royal Astronomical Society*, **518**, 2627 (arXiv:2210.07945) [5 citations]
- 48 Kawauchi, K.; Murgas, F.; Palle, E.; Narita, N.; *et al.* (incl. **de Leon, J. P.**), 2022, *Validation and atmospheric exploration of the sub-Neptune TOI-2136b around a nearby M3 dwarf*, *Astronomy and Astrophysics*, **666** (arXiv:2202.10182) [7 citations]
- 47 Carmichael, Theron W.; Irwin, Jonathan M.; Murgas, Felipe; Pallé, Enric; *et al.* (incl. **de Leon, J. P.**), 2022, *TOI-2119: a transiting brown dwarf orbiting an active M-dwarf from NASA's TESS mission*, *Monthly Notices of the Royal Astronomical Society*, **514**, 4944 (arXiv:2202.08842) [10 citations]
- 46 Mori, Mayuko; Livingston, John H.; **de Leon, J. P.**; Narita, Norio; *et al.*, 2022, *TOI-1696: A Nearby M4 Dwarf with a 3 R_⊕ Planet in the Neptunian Desert*, *The Astronomical Journal*, **163**, 298 (arXiv:2203.02694) [12 citations]
- 45 Christian, Sam; Vanderburg, Andrew; Becker, Juliette; Yahalomi, Daniel A.; *et al.* (incl. **de Leon, J. P.**), 2022, *A Possible Alignment Between the Orbits of Planetary Systems and their Visual Binary Companions*, *The Astronomical Journal*, **163**, 207 (arXiv:2202.00042) [27 citations]
- 44 Watanabe, Noriharu; Narita, Norio; Palle, Enric; Fukui, Akihiko; *et al.* (incl. **de Leon, J. P.**),

- 2022, *Nodal precession of WASP-33b for 11 yr by Doppler tomographic and transit photometric observations*, Monthly Notices of the Royal Astronomical Society, **512**, 4404 (arXiv:2203.02003) [10 citations]
- 43 Fukui, Akihiko; Kimura, Tadahiro; Hirano, Teruyuki; Narita, Norio; *et al.* (incl. **de Leon, J. P.**), 2022, *TOI-2285b: A 1.7 Earth-radius planet near the habitable zone around a nearby M dwarf*, Publications of the Astronomical Society of Japan, **74** (arXiv:2110.10215) [8 citations]
- 42 Castro-González, A.; Díez Alonso, E.; Menéndez Blanco, J.; Livingston, J.; *et al.* (incl. **de Leon, J. P.**), 2022, *The K2-OjOS Project: New and revisited planets and candidates in K2 campaigns 5, 16, & 18*, Monthly Notices of the Royal Astronomical Society, **509**, 1075 (arXiv:2109.03346) [13 citations]
- 41 Wong, Ian; Shporer, Avi; Zhou, George; Kitzmann, Daniel; *et al.* (incl. **de Leon, J. P.**), 2021, *TOI-2109: An Ultrahot Gas Giant on a 16 hr Orbit*, The Astronomical Journal, **162**, 256 (arXiv:2111.12074) [28 citations]
- 40 Garai, Z.; Pribulla, T.; Parviainen, H.; Pallé, E.; *et al.* (incl. **de Leon, J. P.**), 2021, *Is the orbit of the exoplanet WASP-43b really decaying? TESS and MuSCAT2 observations confirm no detection*, Monthly Notices of the Royal Astronomical Society, **508**, 5514 (arXiv:2110.04761) [11 citations]
- 39 **de Leon, J. P.**; Livingston, J.; Endl, M.; Cochran, W. D.; *et al.*, 2021, *37 new validated planets in overlapping K2 campaigns*, Monthly Notices of the Royal Astronomical Society, **508**, 195 (arXiv:2108.05621) [22 citations]
- 38 Scarsdale, Nicholas; Murphy, Joseph M. Akana; Batalha, Natalie M.; Crossfield, Ian J. M.; *et al.* (incl. **de Leon, J. P.**), 2021, *TESS-Keck Survey. V. Twin Sub-Neptunes Transiting the Nearby G Star HD 63935*, The Astronomical Journal, **162**, 215 (arXiv:2110.06885) [15 citations]
- 37 Hirano, Teruyuki; Livingston, John H.; Fukui, Akihiko; Narita, Norio; *et al.* (incl. **de Leon, J. P.**), 2021, *Two Bright M Dwarfs Hosting Ultra-Short-Period Super-Earths with Earth-like Compositions*, The Astronomical Journal, **162**, 161 (arXiv:2103.12760) [25 citations]
- 36 Fukui, A.; Korth, J.; Livingston, J. H.; Twicken, J. D.; *et al.* (incl. **de Leon, J. P.**), 2021, *TOI-1749: an M dwarf with a Trio of Planets including a Near-resonant Pair*, The Astronomical Journal, **162**, 167 (arXiv:2107.05430) [7 citations]
- 35 Teske, Johanna; Wang, Sharon Xuesong; Wolfgang, Angie; Gan, Tianjun; *et al.* (incl. **de Leon, J. P.**), 2021, *The Magellan-TESS Survey. I. Survey Description and Midsurvey Results*, The Astrophysical Journal Supplement Series, **256**, 33 (arXiv:2011.11560) [31 citations]
- 34 Trifonov, T.; Caballero, J. A.; Morales, J. C.; Seifahrt, A.; *et al.* (incl. **de Leon, J. P.**), 2021, *A nearby transiting rocky exoplanet that is suitable for atmospheric investigation*, Science, **371**, 1038 (arXiv:2103.04950) [57 citations]
- 33 Parviainen, H.; Pallé, E.; Zapatero-Osorio, M. R.; Nowak, G.; *et al.* (incl. **de Leon, J. P.**), 2021, *TOI-519 b: A short-period substellar object around an M dwarf validated using multicolour photometry and phase curve analysis*, Astronomy and Astrophysics, **645** (arXiv:2011.11458) [22 citations]
- 32 Chen, G.; Pallé, E.; Parviainen, H.; Wang, H.; *et al.* (incl. **de Leon, J. P.**), 2021, *An enhanced slope in the transmission spectrum of the hot Jupiter WASP-104b*, Monthly Notices of the Royal Astronomical Society, **500**, 5420 (arXiv:2011.06329) [17 citations]
- 31 Castro González, A.; Díez Alonso, E.; Menéndez Blanco, J.; Livingston, John H.; *et al.* (incl. **de**

- Leon, J. P.**), 2020, *Planetary candidates transiting cool dwarf stars from campaigns 12 to 15 of K2*, Monthly Notices of the Royal Astronomical Society, **499**, 5416 (arXiv:2007.12744) [14 citations]
- 30 Narita, Norio; Fukui, Akihiko; Yamamuro, Tomoyasu; Harbeck, Daniel; *et al.* (incl. **de Leon, J. P.**), 2020, *MuSCAT3: a 4-color simultaneous camera for the 2m Faulkes Telescope North*, Proceedings of the SPIE, **11447** [23 citations]
- 29 Bouma, L. G.; Hartman, J. D.; Brahm, R.; Evans, P.; *et al.* (incl. **de Leon, J. P.**), 2020, *Cluster Difference Imaging Photometric Survey. II. TOI 837: A Young Validated Planet in IC 2602*, The Astronomical Journal, **160**, 239 (arXiv:2009.07845) [51 citations]
- 28 Kemmer, J.; Stock, S.; Kossakowski, D.; Kaminski, A.; *et al.* (incl. **de Leon, J. P.**), 2020, *Discovery of a hot, transiting, Earth-sized planet and a second temperate, non-transiting planet around the M4 dwarf GJ 3473 (TOI-488)*, Astronomy and Astrophysics, **642** (arXiv:2009.10432) [34 citations]
- 27 Nowak, G.; Luque, R.; Parviainen, H.; Pallé, E.; *et al.* (incl. **de Leon, J. P.**), 2020, *The CARMENES search for exoplanets around M dwarfs. Two planets on opposite sides of the radius gap transiting the nearby M dwarf LTT 3780*, Astronomy and Astrophysics, **642** (arXiv:2003.01140) [63 citations]
- 26 Luque, R.; Casasayas-Barris, N.; Parviainen, H.; Chen, G.; *et al.* (incl. **de Leon, J. P.**), 2020, *Obliquity measurement and atmospheric characterisation of the WASP-74 planetary system*, Astronomy and Astrophysics, **642** (arXiv:2007.11851) [17 citations]
- 25 Nowak, Grzegorz; Palle, Enric; Gandolfi, Davide; Deeg, Hans J.; *et al.* (incl. **de Leon, J. P.**), 2020, *K2-280 b - a low density warm sub-Saturn around a mildly evolved star*, Monthly Notices of the Royal Astronomical Society, **497**, 4423 (arXiv:2007.07939) [4 citations]
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- 18 Jenkins, James S.; Díaz, Matías R.; Kurtovic, Nicolás T.; Espinoza, Néstor; *et al.* (incl. **de**

- Leon, J. P.**), 2020, *An ultrahot Neptune in the Neptune desert*, *Nature Astronomy*, **4**, 1148 (arXiv:2009.12832) [53 citations]
- 17 Fukui, A.; Suzuki, D.; Koshimoto, N.; Bachelet, E.; *et al.* (incl. **de Leon, J. P.**), 2019, *Kojima-1Lb Is a Mildly Cold Neptune around the Brightest Microlensing Host Star*, *The Astronomical Journal*, **158**, 206 (arXiv:1909.11802) [28 citations]
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- 5 Livingston, John H.; Endl, Michael; Dai, Fei; Cochran, William D.; *et al.* (incl. **de Leon, J. P.**), 2018, *44 Validated Planets from K2 Campaign 10*, *The Astronomical Journal*, **156**, 78

(arXiv:1806.11504) [56 citations]

- 4 Uyama, Taichi; Hashimoto, Jun; Muto, Takayuki; Akiyama, Eiji; *et al.* (incl. **de Leon, J. P.**), 2018, *Subaru/HiCIAO HK_s_ Imaging of LKHa 330: Multi-band Detection of the Gap and Spiral-like Structures*, The Astronomical Journal, **156**, 63 (arXiv:1804.05934) [26 citations]
- 3 Murakami, Kenichi; Hayakawa, Tomohiko; **de Leon, J. P.**; & Ishikawa, Masatoshi, 2018, *Real-time high-speed motion blur compensation method using galvanometer mirror for shape sensing of microfabricated objects*, Proceedings Volume 10679, Optics, Photonics, and Digital Technologies for Imaging Applications V [7 citations]
- 2 Yang, Yi; Hashimoto, Jun; Hayashi, Saeko S.; Tamura, Motohide; *et al.* (incl. **de Leon, J. P.**), 2017, *Near-infrared Imaging Polarimetry of Inner Region of GG Tau A Disk*, The Astronomical Journal, **153**, 7 (arXiv:1610.09134) [14 citations]
- 1 **de Leon, J. P.**; Takami, Michihiro; Karr, Jennifer L.; Hashimoto, Jun; *et al.*, 2015, *Near-IR High-resolution Imaging Polarimetry of the SU Aur Disk: Clues for Tidal Tails?*, The Astrophysical Journal, **806** (arXiv:1505.03610) [15 citations]

Awards

2022/12: St. Joseph's Academy, Centennial Achiever's Award

2021/3: Philippine Embassy in Japan, Medal for distinguished Filipino Graduates

2018/4-2021/3: Ministry of Education, Culture, Sports (MEXT) PhD Scholarship (JPY 8.4M)

2016/4-2018/3: MEXT MSc Scholarship (JPY 5.6M)

2015/4-2016/3: MEXT Japanese Language and Research Scholarship (JPY 2.8M)

2015/10-2016/3: Research Grant from the Graduate University for Advanced Studies (JPY 0.2M)

2014/9: SanDisk Japan Scholarship (USD 3.75k, deferred)

2013/3: International Space University Scholarship (EUR 9k, deferred)

2011-Present: Received multiple travel grants to attend workshops in the US and Taiwan related to data science, and participated in research-related conferences and observation runs in the U.S., Europe, South Africa, and South-east Asia

Teaching and Mentorships

Designed and Taught Courses: Created and delivered two elective courses for 4th-year undergraduate Aerospace Engineering students at the [Ateneo de Davao University](#) during the 2nd semester of 2021.

Research Collaborations: Collaborated with M. Mori (Current postdoc) on the discovery and validation of a rare planet in the Neptune desert (Refer to [Mori et al. 2022](#)).

Pipeline Development: Wrote a public Python code for easily analyzing data from TESS telescope appropriate for research and instruction (Refer to github.com/jpdeleon/quicklook)

Thesis Advisory: Worked with H. Kobayashi (Former undergraduate student) to develop a pipeline for finding young transiting planets and binary stars in nearby star clusters (Refer to github.com/hiremasa/ytps). Also advised A. Nodado (Former student) on her undergraduate thesis focused on Mira variables.

MEXT Scholarship Guidance: Provided guidance to A. Javier and C. Cabatlao from their scholarship application to acceptance, supporting their successful pursuit of graduate studies

in Japan.

Trainings and Workshops

- JWST Data Analysis Workshop, Chiang Mai, Thailand, Jun 24 - Jul 5 2024
- Japan Planetary Atmosphere Research Society workshop II, Atami, Japan, Mar 2023
- Japan Planetary Atmosphere Research Society workshop, Matsushima, Miyagi, Japan, Mar 2022
- RESCEU Symposium, From Protoplanetary Disks through Planetary System Architecture to Planetary Atmospheres and Habitability, Okinawa, Japan, Oct 14-18, 2019
- 1st NARIT-EACOA Summer workshop on Astrostatistics and Informatics, Chiang Mai, Thailand, Aug 13-17, 2019
- Telluric Line Hack Week, Flatiron Institute, New York, USA, Feb 25-28, 2019
- NASA Sagan Exoplanet Summer Workshop, NASA Exoplanet Science Institute, California Institute of Technology, Pasadena, California, USA, Jul 23-27, 2018
- Japan Geoscience Union Meeting, Chiba, Japan, May 20-24, 2018
- 2nd Rencontres du Vietnam on Exoplanetary Science, Binh Dinh, Vietnam, Feb 2018
- TIARA Summer School on Astrostatistics and Big Data, Taipei, Taiwan, Sep 4-8, 2017
- Astronomy Hack Week, University of Washington, Seattle, USA, Aug 28- Sep 1, 2017
- Protoplanetary Disk Dynamics and Planet Formation Workshop, Yokohama Institute for Earth Sciences, JAMSTEC, Kanagawa, Japan, Sep 29-Oct 2, 2015
- 27th Spring School in Particle and Fields, Chang Gung University, Taoyuan City, Taiwan, Apr 2-5, 2014
- NARIT-KASI Radio Astronomy Winter School, Chiang Mai, Thailand, Jan 27-30, 2014
- TEDx Diliman: Things that Matter, UP Diliman, Philippines, Oct 20, 2013
- 2nd Southeast Asian Astronomers Collaboration Meeting, Bandung, Indonesia, Nov 18-22, 2013
- Sokendai Asian Winter School on Exoplanets, National Astronomical Observatory of Japan (NAOJ), Mitaka, Tokyo, Japan, Dec 3-5, 2012
- 1st Southeast Asian Astronomers Collaboration Meeting, Palawan, Philippines, Nov 5-7, 2012
- Astronomy Training Workshop for Science Educators, Galileo Teacher Training Program (GTTP), UP Los Baños, Philippines, Apr 9-11, 2012
- The Universe Survives– 2012, NIDO Science Discovery Center, SM Mall of Asia, Pasay City, Philippines, Feb 18 and 24, 2012
- Search for Undiscovered Main Belt asteroids and other important NEO Observations International Asteroid Campaign (IASC), Philippines, Apr 20—May 20, 2012
- 29th Samahang Pisika ng Pilipinas (Physics Society of the Philippines) National Physics Congress, National Institute of Physics, College of Science, UP Diliman, Philippines, Oct 24-26, 2011
- International Astronomical Union (IAU) Gala Night, NIDO Discovery Center, SM Mall of Asia, Pasay City, Philippines, Oct 21, 2011
- Developing Astronomy Education and Research in the Philippines,|| UP Los Baños, Philippines, Oct 20, 2011

Field Work Experiences

2018-present: bi-monthly observations with MuSCAT2/TCS telescope, Teide Observatory, Tenerife, Spain (remote)
2022-2023: monthly remote observations with Subaru/IRD telescope intensive program (remote; PI: Norio Narita)
2018-2020: MuSCAT2/TCS telescope, Teide Observatory, Tenerife, Spain (on-site)
2018: SIRIUS/IRSF telescope, Sutherland, South Africa (on-site, 2 weeks)
2018: IRCS/Subaru telescope, Mauna Kea observatory, Hawaii, USA (on-site, 3 nights)
2017: CHARIS/Subaru telescope, Mauna Kea observatory, Hawaii, USA (on-site, 2 nights)
2017: HDS/Gemini telescope, Mauna Kea observatory, Hawaii, USA (on-site, 1 night)
2017-2019: MuSCAT2/OAO telescope, Japan (on-site, 20+ nights)

Outreach Activities

Resource speaker for the Philippine Astronomy Week 2024 led by PAGASA, Feb 2024
Featured at Pinoy Scientists in [Jan 2023](#)
Resource speaker for Science Week at De La Salle Integrated School, Mar 2022
Resource speaker for the Philippine Science High School-Western Visayas Campus, Mar 2021
Courtesy call by the Director of the Philippine Space Agency (PhilSA), Mar 2021
Invited speaker at National Institute of Physics, University of the Philippines Diliman (UPD), Jan 2020
Astronomy Over Coffee (self-funded Astronomy event) at UP Diliman Hotel, Sep 2019
Founding of Filipino Astronomy Community ([FAC](#); 2016)
Invited speaker at Philippine Rural High School, Los Banos, Apr 2014
Invited speaker at St. Joseph's Academy Sariaya High School, Apr 2013

Affiliations and Services

Monthly Notices of the Royal Astronomical Society ([MNRAS](#); Impact Factor: 4.8; Active referee)
SPACETIDE Foundation ([spacetide.org](#); Active intern, 2022-present)
Science Integrated Direction for High School Investigators ([SIDHI](#); mentor, 2022-present)
Science and Technology Advisory Council- Japan chapter ([STAC-J](#); Member, 2019-present)
Exoplanet Follow-up Observing Program ([ExoFOP](#); Member, 2018-present)
Association of Filipino Students in Japan ([AFSJ](#); President, 2017-2018)
Association of Filipino Scholars in Taiwan ([AFST](#); Founding member, 2014)
[Gawad Kalinga](#) (Volunteer, 2009-2013)