CURRICULUM VITAE

NAME	Jorge Ignacio Martínez Palomera
CITIZENSHIP	Chilean
DATE OF BIRTH	23rd March 1991
ADDRESS	2257 Virginia St., Berkeley, CA 94709, US
PHONE	+1 510 541 3409
E-MAIL	jorgemarpa@berkeley.edu
GitHub	https://github.com/jorgemarpa

EDUCATION

2014 – 2018   Ph.D. Astronomy,
                   Department of Astronomy (DAS),
                   Universidad de Chile.

2009 - 2013   Bacherlor of Science in Astronomy,
                   Facultad de Ciencias Matemáticas y Físicas
                   Universidad de Chile.

APPOINTMENTS

- Postdoc Scholar, Astronomy Department, University of California Berkeley (2018-present)

FIELD EXPERIENCE

- Main programming language Python. Experience with IDL, C and R.
- Knowledge in astronomical software (e.g. IRAF, SExtractor, SWarp, SCAMP and PSFEx.)
- Experience in spectroscopic and imaging observation (21 nights).
- Knowledge of Machine Learning tools for astronomy (e.g. *scikit-learn* and *astroML)*
- Knowledge level user databases SQL and influxDB.
- Knowledge level user of HPC Systems.
- Teaching assistant of Astroinformatic, General Astronomy, and Stellar Astrophysics courses (5 semesters).

FELLOWSHIPS

2014 – 2018   CONICYT scholarship.

PUBLICATIONS

- **Martínez-Palomera, J.**; Förster, F.; Protopapas, P.; …; *"The High Cadence Transient Survey (HITS): Compilation and characterization of light-curve catalogs"*; 2018, AJ, 156, 186.

- **Martínez-Palomera, J.**; Lira, P.; …; *"Introducing the Search for Intermediate-mass Black-hole In Nearby Galaxy (SIBLING) Survey"*; 2018, submitted to AAS.
- Carrasco Davis, R; Cabrera-Vives, G;… **Martínez-Palomera, Jorge**; Donoso, Cristobal: *"Deep Learning for Image Sequence Classification of Astronomical Events"*; 2018, accepted by PASP
- Medina, G.; Muñoz, R.;… **Martínez, J.**;… San Martín, J.; *"Discovery of distant RR Lyrae stars in the Milky Way using DECam"*; 2017, ApJ in press.
- Peña, J.; Fuentes, C.;… **Martínez, J.**; … Hamuy, M.; *"The High Cadence Transient Survey (HITS): Asteroids"*; 2017, ApJ in press.
- Förster, F.; Moriya, T.J.;… **Martínez, J.**;… Walton, N.A.; Young, D.R.;: *"The delay of shock breakout due to circumstellar material evident in most type II supernovae";* 2018, NatAs, 122.
- Medina, G.; Muñoz, R.;… **Martínez, J.**;… San Martín, J.; *"Serendipitous Discovery of RR Lyrae Stars in the Leo V Ultra-faint Galaxy"*; 2017, ApJ, 845, 10.
- Lira, P.; Botti, I.;… **Martínez, J.**; López, P.; *"Reverberation mapping of luminous quasars at high-z"*; 2018, ApJ, 865, 56 .
- Förster, F.; Maureira, J.C.;… **Martínez, J.**;… Vera, E; *"The High Cadence Transient Survey (HITS). I. Survey Design and Supernova Shock Breakout Constraints",* 2016, ApJ, 832, 155.

TALKS

- *"Compilation and characterization of light-curves catalogues for HiTS survey"* Pucón Symposium 2015: Advanced Tools Applied to Frontier Astronomy, BioMedicine and Massive Data-driven Sciences. Center for Mathematical Modeling, Universidad de Chile, Aug 25 - Aug 28, 2015.
- *"Compilation and characterization of light-curves catalogues for HiTS survey"* 22nd Los Alamos Stellar Pulsation Conference: wide-field variability surveys: a 21st-century perspective, San Pedro de Atacama, Chile, Nov. 28 - Dic. 2, 2016.
- *"Compilation and characterization of light-curves catalogues for HiTS survey"* SOCHIAS Annual Meeting, Marbella, Chile, Jan. 23 - 26, 2017.
- *"Compilation and characterization of light-curves catalogues for HiTS survey"* III Workshop LSST Chile, Santiago, Chile, Dec. 13 - 15, 2017.

MISCELLANEOUS

- 2018 (Jun 25 - 29) Poster presentation at 34th IAP Conference: Massive black holes in evolving galaxies: from quasars to quiescence, Paris, France.
- 2018 (Jan. 28 - Feb. 3) Attended "48th Saas-Fee advanced course: Black hole formation and growth", Saas-Fee, Switzerland.
- 2017 (Nov. 13 - 17) Poster presentation of thesis work at Southern Horizons in Time-Domain Astronomy, Stellenbosch, South Africa.
- 2017 (Nov. 7 - 10) Poster presentation of thesis work at Astroinformatics 2017, Cape Town, South Africa.
- 2017 (Oct. 22 - 28) Poster presentation at Astronomical Data Analysis Software and Systems, Santiago, Chile.

- 2017 (Aug. 30 - Sept. 1) Poster and oral presentation at CMM Pucón Symposium, Puerto Varas, Chile.
- **2017 (Mar. 6 - 7) Machine Learning in astronomy tutorial at Workshop de Estudiantes de Astronomia UChile, Santiago, Chile.**
- **2017 (Jan. 9 - 20) Attended Fourth Chile-Harvard Innovative Learning Exchange, CMM, Universidad de Chile, Santiago, Chile.**
- 2016 (Dic. 14 - 15) Attended "Third MAS Workshop", Viña del Mar, Chile.
- 2016 (Dic. 12 - 13) Attended "Towards Science in Chile with LSST 2016: Workshop", Viña del Mar, Chile.
- 2016 (July 1 - 31) Attended Third Chile-Harvard Innovative Learning Exchange, IACS, Harvard University, MA, US.
- **2016 (Apr. 11 - 15) Attended "Tutorial Session: Astrostatistics and R", Eric Feigelson, Pontificia Universidad Católica, Santiago, Chile.**
- 2016 (Mar. 1 - 4) Poster presentation at SOCHIAS Annual Meeting, Antofagasta, Chile.
- 2016 (Jan. 4 - 14) Attended Third Chile-Harvard Innovative Learning Exchange, CMM, Santiago, Chile.
- 2015 - 2016 (Nov. 15 - Feb. 12) Internship at Institute for Applied Computation Science, supervised by Prof. Pavlos Protopapas, Harvard University, MA, US.
- **2015 (Aug. 15-22) Attended Third La Serena School for Data Science: "Applied Tools for Astronomy", AURA, La Serena, Chile.**
- 2015 (Mar. 9-11) Attended Tools for Astronomical Big Data, Tucson, Arizona.
- 2015 (Mar. 11-14) Attended DECam Community Science Workshop, Tucson, Arizona.
- 2015 (Jan. 3-19) Attended Second Chile-Harvard Innovative Learning Exchange, AURA-La Serena, Chile and CMM-Santiago, Chile.