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Education

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| Pontificia Universidad Católica de Chile (PUC) Ph. D. in Astrophysics (expected graduation: June, 2017) | 2012 — present |
| Pontificia Universidad Católica de Chile (PUC) Licenciate in Astronomy (<i>summa cum laude</i>) Advisor: Dr. Andrés Jordán | 2007 — 2012 |

Fellowships & Awards

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| PUC Young Student Leader Yearly recognition given to 20 students from the university | 2016 |
| Kavli Summer Program in Astrophysics Fellowship Granted to 17 PhD students around the world | 2016 |
| People's Choice Award Awarded at the Three Minute Thesis® Competition at PUC | 2014 |
| Distinguished Graduate Student Award Yearly award granted by the Chilean Astronomical Society | 2014 |
| CONICYT Graduate Research Fellowship Granted by the Chilean Ministry of Education | 2013—present |

Publications

First author:

1. “*Metal enrichment leads to low atmospheric C/O ratios in transiting giant exoplanets*”
Espinoza, N., Fortney, J., Miguel, Y., et al., 2017, ApJL, 834, 151.
2. “*EPIC 220504338b: A dense hot-Jupiter transiting a solar analogue*”
Espinoza, N., Rabus, M., Brahm, R., et al., 2016, submitted to MNRAS (eprint arXiv:1611.07614).
3. “*Discovery and Validation of a High-Density sub-Neptune from the K2 Mission*”
Espinoza, N., Brahm, R., Jordán, A., et al., 2016, ApJ, 830, 43.
4. “*HATS-25b through HATS-30b: A Half-dozen New Inflated Transiting Hot Jupiters from the HATSouth Survey*”
Espinoza, N., Bayliss, D., Hartman, J., et al., 2016, AJ, 152, 108.
5. “*Limb-darkening and exoplanets II: Choosing the Best Law for Optimal Retrieval of Transit Parameters*”
Espinoza, N. & Jordán, A., 2016, MNRAS, 457, 3573.
6. “*Limb-darkening and exoplanets: testing stellar model atmospheres and identifying biases in transit parameters*”
Espinoza, N. & Jordán, A., 2015, MNRAS, 450, 1879.

Co-authored (30 refereed publications in total, selected publications follow):

1. “ACCESS I: An Optical Transmission Spectrum of GJ 1214b Suggesting a Heterogeneous Stellar Photosphere”
Rackham, B., **Espinoza**, N., Apai, D., et al., 2016, ApJ, 834, 151.
2. “CERES: A Set of Automated Reduction Routines for Echelle Spectra”
Brahm, R., Jordán, A., **Espinoza**, N., 2017, PASP, 129, 973.
3. “HATS-11b AND HATS-12b: Two Transiting Hot Jupiters Orbiting Subsolar Metallicity Stars Selected for the K2 Campaign 7”
Rabus, M., Jordán, A., Hartman, J., et al. (including **Espinoza**, N.), 2016, AJ, 152, 88.
4. “HATS-18 b: An Extreme Short-Period Massive Transiting Planet Spinning Up Its Star”
Penev, K., Hartman, J., Bakos, G., et al. (including **Espinoza**, N.), 2016, ApJ, 152, 127.
5. “HATS-17b: A Transiting Compact Warm Jupiter in a 16.3 Day Circular Orbit”
Brahm, R., Jordán, A., Bakos, G., et al. (including **Espinoza**, N.), 2016, AJ, 151, 89.
6. “An independent discovery of two hot Jupiters from the K2 mission”
Brahm, R., Jones, M., **Espinoza**, N., et al., 2016, PASP, 128, 970.
7. “HATS-7b: A Hot Super Neptune Transiting a Quiet K Dwarf Star”
Bakos, G., Penev, K., Bayliss, D., et al. (including **Espinoza**, N.), 2015, ApJ, 813, 111.
8. “Water vapour absorption in the clear atmosphere of a Neptune-sized exoplanet”
Fraigne, J., Deming, D., Benneke, B., et al. (including **Espinoza**, N.), 2014, Nature, 513, 526.
9. “A Ground-based Optical Transmission Spectrum of WASP-6b”
Jordán, A., **Espinoza**, N., Rabus, M., et al., 2013, ApJ, 778, 184.

Observing proposals & experience

Accepted observing proposals (as PI):

1. “Radial-velocity confirmation of K2 low-mass planet candidates”
9 nights | ESO 3.6m | 2017A
2. “Exploring the broadband atmospheric features of the extreme exoplanet KELT-11b”
4 nights | Swope 1m | 2016A+2017A
3. “ACCESS – The Arizona-CfA-Catolica Exoplanet Spectroscopy Survey”
8 nights | Baade 6.5m | 2014-2016
4. “Variability monitoring of ACCESS targets: towards a precise and accurate view of exoplanetary atmospheres”
50 hours | LCOGTN 1m | 2015B

Observing experience:

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| Magellan/IMACS, 23 nights | 2014-2017 |
| Magellan/MMIRS, 1 night | 2014A |
| DuPont 2.5m, 1 night | 2013B |
| SMARTS 0.9m, 8 nights | 2014B |
| Swope 1m, 16 nights | 2014-2017 |
| Euler 1.2m/CORALIE, 20 nights | 2013-2016 |
| MPG-ESO 2.2m/FEROS, 2 nights | 2012A |
| ESO 3.2m/HARPS, 10 nights | 2014-2016 |

Invited Talks

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| Atmospheres of Disks and Planets Workshop, Ringberg Castle, Germany | 04/2017 |
| Stars and Planets Seminar, Harvard-Smithsonian CfA, USA | 11/2016 |
| Disks and Planets Seminar, Universidad Diego Portales, Chile | 08/2016 |
| Kavli Summer Program Seminar, UCSC, USA | 07/2016 |
| Planet and Star Formation Coffee Talk, MPIA, Germany | 07/2015 |
| Instituto de Astrofísica de Canarias Seminar, Spain | 07/2015 |
| Joint OSU-PUC Workshop, Ohio State University, USA | 05/2014 |
| ORIGINS Seminar, Center for Astrobiology, University of Arizona, USA | 03/2014 |
| XI Chilean Astronomical Society Annual Science Meeting, Chile | 01/2014 |
| First International Meeting in Astrostatistics in Valparaíso, Chile | 05/2013 |

Outreach

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| Weekly astronomy show on Chilean national radio station “Futuro FM” Audience: +30k/week (source: Iberoamericana Radio Chile) | 2015—present |
| Monthly astronomy blog at the “Telescopios Chile” web portal | 2015—present |
| Public lecture: “Planetary transits: 400 years discovering new worlds” 2016 Transit of Mercury day, PUC, Chile | 05/2016 |
| Public lecture: “Light: an electric and magnetic relationship” EXPLORA-CONICYT National Science Week, Chile | 10/2015 |
| Lecture for school teachers: “Hands-on spectroscopy with the SDSS” Given yearly at the National Astronomy Olympiads, Chile | 2012—2015 |
| Invited jury at the VI National Astronomy Olympiads, Chile | 07/2014 |
| Several (~ 2 per semester) talks at Chilean schools | 2012—present |
| Founder and Coordinator of the “Bling Bling Universe” astronomy initiative | 2009—2015 |
| Director of the “Itinerant Physics” outreach program | 2009—2013 |

Teaching and Mentoring

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| Teacher, Center of Study and Development of Talent, Penta UC Course: “Orders of Magnitude” (50 hours per course) | 2014A, 2014B, 2016A |
| Invited Lecturer, Faculty of Economics and Business, U. de Chile Course: “Introduction to Science” (one lecture per semester) | 2016A, 2016B |
| Teaching Assistant: | |
| ASP5408: Statistics for Astronomers (PUC) | 2012—2016 |
| AST0421: Experimental Astrophysics (PUC) | 2014B |
| AST0212: Introduction to Data Analysis (PUC) | 2014A |
| AST1525: Putting Numbers to the Earth and the Universe (PUC) | 2014A |
| AST0311: General Astrophysics (PUC) | 2013A |
| FIS101M: General Physics for the Military School (PUC) | 2011B |
| FIS120: Electricity & Magnetism (Univ. Técnica Federico Santa María) | 2010—2011 |

Student mentorship:

Roy Van der Westhuizen (Undergraduate Thesis), PUC
Title: “An interactive virtual exoplanet laboratory: APIastro”

2015B