

Yordanka Apostolovski

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EDUCATION

Universidad Andrés Bello; Santiago, Chile

2015 Present

Ph.D. in Astrophysics

Thesis Project: “Studies of the Interstellar Medium in Distant, Gravitationally Lensed Star Forming Galaxies”

Advisors: Timo Anguita & Manuel Aravena

Relevant Coursework: Astrostatistics, Advanced Stellar Astrophysics, Astronomical Instrumentation and Observational Methods, Advanced Extragalactic Astrophysics and Exoplanets and Astrobiology.

ESO; Garching bei München, Germany

Spring 2018

Visitor Student

Project: “Analysing MUSE data of SPT2349-56”

Advisor: Carlos de Breuck

Yale University; New Haven, CT

Spring 2016

Visitor Student

Project: “Outflow-Infall interaction in B335”

Advisor: Héctor G. Arce

Universidad Andrés Bello; Santiago, Chile

2011 2014

Licenciatura en Astronomía, Graduated with Distinction

Relevant Coursework: Electrodynamics, Quantum Mechanics, Statistical Mechanics, Thermodynamic, Stellar Astrophysics, Extragalactic Astrophysics, Introduction to Cosmology.

RESEARCH EXPERIENCE

Universidad Andrés Bello; Santiago, Chile

2014 2015

Research Assistant

Assist Dr. Giuliano Pignata with project “Supernovae Diversity as a Tool to Study Stellar Evolution” (FONDECYT 1140352), reducing data and elaborating light curves of SN in the optical Band.

Universidad Andrés Bello; Santiago, Chile

2012 2013

Research Assistant

Assist Dr. Patricia Arevalo with project “Accretion onto Supermassive Black Holes: Disentangling the Accretion-Flow Structures Through Correlated Multiwavelength Monitoring of the Flux Variability” (FONDECYT 11100449), elaborating light curves of AGNs in the optical Band.

Universidad Andrés Bello; Santiago, Chile

2011 2012

Research Assistant

Assist Dr. Giuliano Pignata with project “Observational Constraints on Supernovae Explosion

Mechanism and Progenitor Systems” (FONDECYT 11090421), reducing data and elaborating light curves of SN in near-IR band.

Millenium Center for Supernova Science; MCSS

2011 Present

Checker at Chilean Automatic Supernova Search, CHASE
Finding new young supernovae in follow-up program.

TEACHING EXPERIENCE

Preuniversitario CPECH; Santiago, Chile

2014

Physics Teacher

Leading weekly five sections and teaching physics to high school students for Prueba de Selección Universitaria (PSU).

Universidad Andrés Bello; Santiago, Chile

2017 Present

Profesor Jornada

Main duties of research and teaching assistant (T.A.), one credit per term.

T.A. FMF024 - Física General

T.A. FMF021 - Física I

T.A. CFIS021 - Física I

RESEARCH INTERESTS

Radio Astronomy

Sub-milimeter Galaxies

Gravitational Lensing

High Redshift Galaxies

Starburst Galaxies

REFEREED PUBLICATION LIST

Apostolovski, Yordanka; Aravena, Manuel; Anguita, Timo; Spilker, Justin; Weiß, Axel; Béthermin, Matthieu; Chapman, Scott C.; Chen, Chian-Chou; Cunningham, Daniel; De Breuck, Carlos; Dong, Chenxing; Hayward, Christopher C.; Hezaveh, Yashar; Jarugula, Sreevani; Litke, Katrina; Ma, Jingzhe; Marrone, Daniel P.; Narayanan, Desika; Reuter, Cassie A.; Rotermund, Kaja and Vieira, Joaquin; Imaging the molecular interstellar medium in a gravitationally lensed star-forming galaxy at $z = 5.7$, *Astronomy and Astrophysics*, Volume 628, August 2019, 10.1051/0004-6361/201935308

Jarugula, Sreevani; Vieira, Joaquin D.; Spilker, Justin S.; Apostolovski, Yordanka; Aravena, Manuel; Béthermin, Matthieu; de Breuck, Carlos; Chen, Chian-Chou; Cunningham, Daniel J. M.; Dong, Chenxing; Greve, Thomas; Hayward, Christopher C.; Hezaveh, Yashar; Litke, Katrina C.; Mangian, Amelia C.; Narayanan, Desika; Phadke, Kedar; Reuter, Cassie A.; Van der Werf, Paul; Weiss, Axel, Spatially Resolved Water Emission from Gravitationally Lensed Dusty Star-forming Galaxies at $z \sim 3$, *The Astrophysical Journal*, Volume 880, Number 2, August 2019, 10.3847/1538-4357/ab290d

Chenxing Dong, Justin S. Spilker, Anthony H. Gonzalez, Yordanka Apostolovski, Manuel Aravena, Matthieu Béthermin, Scott C. Chapman, Chian-Chou Chen, Christopher C. Hayward, Yashar D. Hezaveh, Katrina C. Litke, Jingzhe Ma, Daniel P. Marrone, Warren R. Morningstar,

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Kedar A. Phadke, Cassie A. Reuter, Jarugula Sreevani, Antony A. Stark, Joaquin D. Vieira, and Axel Weiß; Source Structure and Molecular Gas Properties from High-resolution CO Imaging of SPT-selected Dusty Star-forming Galaxies, *The Astrophysical Journal*, Volume 873, Issue 1, 4 March 2019, article id. 50, 15 pp., 10.3847/1538-4357/ab02fe

Ó Rodríguez, G Pignata, M Hamuy, A Clocchiatti, M M Phillips, K Krisciunas, N I Morrell, G Folatelli, M Roth, S Castellón, I S Jang, Y Apostolovski, P López, S Marchi, R Ramírez, P Sánchez; Type II supernovae as distance indicators at near-IR wavelengths, *Monthly Notices of the Royal Astronomical Society*, Volume 483, Issue 4, 11 March 2019, Pages 5459–5479, 10.1093/mnras/sty3396

T Treu, A Agnello, M A Baumer, S Birrer, E J Buckley-Geer, F Courbin, Y J Kim, H Lin, P J Marshall, B Nord, P L Schechter, P R Sivakumar, L E Abramson, T Anguita, Y Apostolovski, M W Auger, J H H Chan, G C F Chen, T E Collett, C D Fassnacht, J-W Hsueh, C Lemon, R G McMahon, V Motta, F Ostrovski, K Rojas, C E Rusu, P Williams, J Frieman, G Meylan, S H Suyu, T M C Abbott, F B Abdalla, S Allam, J Annis, S Avila, M Banerji, D Brooks, A Carnero Rosell, M Carrasco Kind, J Carretero, F J Castander, C B D’Andrea, L N da Costa, J De Vicente, P Doel, T F Eifler, B Flaugher, P Fosalba, J García-Bellido, D A Goldstein, D Gruen, R A Gruendl, G Gutierrez, W G Hartley, D Hollowood, K Honscheid, D J James, K Kuehn, N Kuropatkin, M Lima, M A G Maia, P Martini, F Menanteau, R Miquel, A A Plazas, A K Romer, E Sanchez, V Scarpine, R Schindler, M Schubnell, I Sevilla-Noarbe, M Smith, R C Smith, M Soares-Santos, F Sobreira, E Suchyta, M E C Swanson, G Tarle, D Thomas, D L Tucker, A R Walker; The STRong lensing Insights into the Dark Energy Survey (STRIDES) 2016 follow-up campaign – I. Overview and classification of candidates selected by two techniques, *Monthly Notices of the Royal Astronomical Society*, Volume 481, Issue 1, 21 November 2018, Pages 1041–1054, 10.1093/mnras/sty2329

T Anguita, P L Schechter, N Kuropatkin, N D Morgan, F Ostrovski, L E Abramson, A Agnello, Y Apostolovski, C D Fassnacht, J W Hsueh, V Motta, K Rojas, C E Rusu, T Treu, P Williams, M Auger, E Buckley-Geer, H Lin, R McMahon, T M C Abbott, S Allam, J Annis, R A Bernstein, E Bertin, D Brooks, D L Burke, A Carnero Rosell, M Carrasco-Kind, J Carretero, C E Cunha, C B D’Andrea, J De Vicente, D L DePoy, S Desai, H T Diehl, P Doel, B Flaugher, J García-Bellido, D W Gerdes, D Gruen, R A Gruendl, J Gschwend, W G Hartley, D L Hollowood, K Honscheid, D J James, K Kuehn, M Lima, M A G Maia, R Miquel, A A Plazas, E Sanchez, V Scarpine, M Smith, M Soares-Santos, F Sobreira, E Suchyta, G Tarle, A R Walker; The STRong lensing Insights into the Dark Energy Survey (STRIDES) 2016 follow-up campaign – II. New quasar lenses from double component fitting, *Monthly Notices of the Royal Astronomical Society*, Volume 480, Issue 4, 11 November 2018, Pages 5017–5028, 10.1093/mnras/sty2172

P R Williams, A Agnello, T Treu, L E Abramson, T Anguita, Y Apostolovski, G C-F Chen, C D Fassnacht, J W Hsueh, B C Lemaux, V Motta, L Oldham, K Rojas, C E Rusu, A J Shajib, X Wang; Discovery of three strongly lensed quasars in the Sloan Digital Sky Survey, *Monthly Notices of the Royal Astronomical Society: Letters*, Volume 477, Issue 1, 11 June 2018, Pages L70–L74, 10.1093/mnrasl/sly043.

Zuzanna Kostrzewa-Rutkowska, Szymon Kozłowski, Cameron Lemon, T Anguita, J Greiner, M W Auger, Ł Wyrzykowski, Y Apostolovski, J Bolmer, A Udalski, M K Szymański, I Soszyński, R Poleski, P Pietrukowicz, J Skowron, P Mróz, K Ulaczyk, M Pawlak; A gravitationally lensed

quasar discovered in OGLE, Monthly Notices of the Royal Astronomical Society, Volume 476, Issue 1, 1 May 2018, Pages 663–672, 10.1093/mnras/sty259.

A Agnello, P L Schechter, N D Morgan, T Treu, C Grillo, D Malesani, T Anguita, Y Apostolovski, C E Rusu, V Motta, K Rojas, B Chehade, T Shanks; Quasar lenses and pairs in the VST-ATLAS and Gaia, Monthly Notices of the Royal Astronomical Society, Volume 475, Issue 2, 1 April 2018, Pages 2086–2096, 10.1093/mnras/stx3226.

OBSERVATIONAL EXPERIENCE

NTT, La Silla, Chile

2016-2019

+20 nights observation of lensed QSO, spectroscopy with EFOSC2.

APEX, Chajnator, Chile

May 2017

One week of observations and reduction for chilean time projects with SHeFI, SEPIA and ARTEMIS instruments.

PROGRAMMING SKILLS

Actually I program with **Python 2.7** and **Pyraf**. Also I can handle different astronomy software like **Scisoft** and **CASA**. I am feel comfortable working in **OS** and **UNIX** environments.

AFFILIATIONS

Millennium Institute of Astrophysics, MAS
Sociedad Chilena de Astronomía, SOCHIAS

GRANTS

Yale-Chile Graduate Student Visiting Scholarship
Academic Scholarship, Universidad Andrés Bello

2016

2015 - 2019

OUTREACH ACTIVITIES

Astroclub, Comité Mixto ESO-Chile

2017