Personal Information

Victor Daniel Vera Cervantes

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Occupation and Role

- Professor of Astronomy.
- International Astronomical Union National Outreach Coordinator - Perú.
- Member of the International Academy of Astronautics SETI Permanent Committee.
- Member of the "Seminario Permanente de Astronomía y Ciencias Espaciales" (SPACE), Faculty of Physics, Universidad Nacional Mayor de San Marcos (UNMSM).
- One the the main promoters of the development of astronomy and space sciences in Peru in every educational level.

Scientific Interest

- Extragalactic Astronomy and Cosmology.
- Astrobiology.
- Educational Astronomy and Public Outreach in Astronomy.
- Archeoastronomy.

Work Experience

- **2018 - Present:** International Astronomical Union National Outreach Coordinator in Perú / Peruvian Olympic Committee on Astronomy and Astronautics / Scientific Advisor and Research Assistant, SPACE, UNMSM, Perú. / Scientific Advisor for Astronomical Observatories Constructions and Planning.
- **2013 - 2017:** Associate Professor of Astronomy, Faculty of Physics, UNMSM, Perú. / Scientific Committee Project "Hannan Pacha".
- **2006 - 2009:** Associate Professor of Astronomy, Faculty of Physics, UNMSM, Perú. / General Coordinator SPACE, UNMSM, Perú. / Member of the Peruvian National Node for the International Year of Astronomy 2009.
- **2006:** Scientific Consultant, Peruvian Space Agency / Scientific Consultant for Pre-professional practices, SPACE, UNMSM. / Scientific Consultant for the Project "Peruvian Astronomical Observatory"(UNSMM - Observatoire de Paris)

Education

- **2009 - 2012:** Department of Physics and Astronomy, University of Bologna, PhD Student in Astronomy / Research Project: Baryon Acoustic Oscillations and the Dark Universe.
- **1999 - 2004:** Mathematics and Mechanics Faculty, Saint Petersburg State University, Russia. Bach. and M.Sc. in Astronomy / Diploma of Astronomy / Research Project: "Correlation Between Radio and Optical Flux Variation of BL Lac Objects".
- **1998 - 1999:** Institute of International Educational Programs, St. Petersburg Polytechnical University, Russia. General Sciences.

Main Scientific Production

- The IAU100 Celebrations in Perú I, II, II and IV (in preparation).
- Oscilaciones Acústicas de Bariones en distribución espacial de galaxias, galaxias de núcleos activos y cúmulos de galaxias a través de la función de correlación. Miguel Andrade y Victor Vera. XXVI Simposio Peruano de Física 2017.
- La Ecuación de Drake y Destino del Planeta. XXVI Simposio Peruano de Física 2017.
- El Problema de la Coincidencia Cósmica y Vida en el Universo. XXV Simposio Peruano de Física 2016.
- Caminando en Planetas Extrasolares Habitables. Lisseth Gonzales, Victor Vera y Teófilo Vargas. XXV Simposio Peruano de Física 2016.
- Estudio de la distribución espacial de galaxias, galaxias de núcleos activos y cúmulos de galaxias a través de la función de correlación. Miguel Andrade y Victor Vera. XXV Simposio Peruano de Física 2016.
- Desplazamiento de las Oscilaciones Acústicas de Bariones. XXII Simposio Peruano de Física 2013.
- Restricción del Índice Espectral Usando Agujeros Negros Primordiales. Revista de Investigación de Fisica, Perú, 2013.
- Exploiting the shift of baryonic acoustic oscillations as a dynamical probe for dark interactions. Vera Cervantes V. D., Marulli F., Moscardini L., Baldi M., Cimatti A., 2012, arXiv:1212.0853. http://arxiv.org/abs/1212.0853
- Strategies, Programs and Projects 2008 of the Astrophysical Group "SPACE- Universidad Nacional Mayor De San Marcos, Peru Preparing for the IYA2009. Vera, Victor; Aguilar, M.; Huisacayna, J. American Astronomical Society Meeting 2018. adsabs.harvard.edu/abs/2008AAS...212.6206V.
- SPACE: Una estrategia para introducir la astronomía científica en el país. María Luisa Aguilar Hurtado y Victor Vera. IV Congreso Iberoamericano de Educación Científica 2007.

Committee and Public Service Work

- International Astronomical Union National Outreach Coordinator in Perú.
- Committee President of the IAU100 Project "NameExoWorlds" in Perú.
- Committee President of the Peruvian Olympiads on Astronomy and Astronautics.
- Committee President of the creation of the "School of Astronomy" at the Faculty of Physics in the Universidad Nacional Mayor de San Marcos, the first school of astronomy in peruvian universities.
- Responsible for Astronomy Public Outreach at the Faculty of Physics of the Universidad Nacional Mayor de San Marcos.
- Scientific Advisor of the project "Spectrum Patronum" in Peru for the searching of solar twins. A collaboration between the Department of Astronomy of the Universidade de Sao Paulo, Brazil; and the Seminario Permanente de Astronomía y Ciencias Espaciales of the Universidad Nacional Mayor de San Marcos, Perú.
- Scientific Advisor of the Project "SETI Óptico". A collaboration among international SETI groups, Universidad Católica Sedes Sapientiae and Universidad Nacional Mayor de San Marcos in Perú.
- Scientific Advisor of the Astronomical Observatory of the Universidad Nacional Mayor de San Marcos in Maranganí, Cusco.
- Member of the team leaders of the "Latinoamerican Olympiads on Astronomy and Astronautics".
- Member of the team leaders of the "International Olympiads on Astronomy and Astrophysics".
- Instructor for international hight-school olympiads on astronomy, Universidad Nacional Mayor de San Marcos, Perú.
- Committee President of the project "ENAS: Enseñanza de la Astronomía", a teacher training program in provinces of Perú.
- Scientific Advisor of AstroSchool - Perú, organization dedicated to astronomy outreach and educational astronomy in Perú.
- Coordinator of the IAU100 Special Project "Astronomical Fridays", the longest-standing public lectures series in the peruvian history
- Organiser of the "International Day of Women and Girls in Science" for the 100 years of the International Astronomical Union in Perú.
- Organiser of the "100 Hours of Astronomy" for the 100 years of the International Astronomical Union in Perú.
- Editor-in-chief of "BlueShift: Acercando la Astronomía", an online peruvian astronomy outreach journal.
- Scientific Advisor of the Universidad Nacional Mayor de San Marcos for the International Day of Astronomy in Perú.
- Organiser of the Third Peruvian School of Astronomy "María Luisa Aguilar", 2019.
- Team leader of the "3rd International Olympiad of Metropolises", Moscow, Russia, 2018.
- Organiser of the event "Search for Extraterrestrial Life: SETI Project", held in Lima, Perú, 2017.
- Organiser of the Second Peruvian School of Astronomy "María Luisa Aguilar": Astrobiología y Exoplanetas, 2017.
- Scientific Advisor of the project "Hannan Pacha: Cielos Andinos", an astronomy outreach project, 2017.

- Organiser of the event "Exploring the Solar System", held in Lima, Perú, 2016.
- Organiser of the First Peruvian School of Astronomy "María Luisa Aguilar": Espectroscopía Astronómica, 2016.
- Organiser of the event "Mexican Archeoastronomy", held in Lima, Perú, 2016.
- Scientific Advisor of the "Sociedad Científica de Astrobiología" del Perú.
- Academic Advisor for the "Curriculum Working Days" of the School of Physics of the Universidad Nacional Mayor de San Marcos, 2016.
- Organiser of the event "History of Quantum Gravity", held in Lima, Perú, 2015.
- Member of the Organizing Committee for the academic event "Telescopios de Nueva Tecnología y la Astrofísica de Hoy", 2013.
- Member of the "Clustering Group" for the Euclid Space Telescope, University of Bologna, ESA, 2010-2012.
- Member of the LOC for Internacional "Euclid Mission Meeting" in Bologna, Italy, 2011.
- General Coordinator of the "Seminario Permanente de Astronomía y Ciencias Espaciales" 2006-2009, the first peruvian organization of professional astronomers.
- Instructor of the "Galileo Teacher Training Program", organized by the International Astronomical Union and UNESCO in Perú.
- Member of the Peruvian National Node for the International Year of Astronomy 2009.
- Organiser of the "100 Hours of Astronomy" for the International Year of Astronomy 2009.
- Organiser of the national project "Telescopio Itinerante" for the International Year of Astronomy 2009.
- Scientific Advisor for the Project JANAX: Search for Best Astronomical Observatory Sites in Peru, organized by the Peruvian Space Agency, 2006.
- Member of the Organizing Committee for the academic event "Convención de Astronomía y Arqueoastronomía Peruana", 2006.
- Member of the Organizing Committee for the academic event "Encuentro Astronómico Franco-Peruano", 2005.
- Member of the Organizing Committee for the academic event "Estudio de Líneas de Absorción Interestelares de Galaxias Cercanas y de Alto Redshift", 2004.

Selected Talks

- HD 156411: "The Exoplanetary System that Will Be Named by Peru". The High IQ Society, Lima, Peru / Science and Technology Fair, Palpa, Ica, Perú, 2019 / Faculty of Physics, UNMSM, 2019.
- Astronomical Fridays: "A Weekend Cosmic Adventure". Université Jean Moulin Lyon 3, France, 2019.
- Observation of the Black Hole at M87. Astronomical Friday, Faculty of Physics, UNMSM, 2019.
- Search for Life in the Universe and Taking Care the Planet. Open Night Museum, Museum of Natural Science, Lima, Perú, 2019.
- Peruvian Olympiads on Astronomy and Astronautics: Equal Opportunities in Gender and Social Conditions. International Day of Women and Girls in Science, Universidad Nacional Mayor de San Marcos, Lima, Perú, 2019.
- Peruvian Olympiads on Astronomy and Astronautics: A Strategy to Introduce Space Sciences in Peruvian High-Schools. Workshop Astronomía en los Andes, Universidad Nacional de Ingeniería, Lima, Perú, 2018.
- International Astronomical Union: 100 Years of Important Discoveries. Astronomical Fridays 2018, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Mathematics and Positional Astronomy. Workshop for School Teachers, Fermin Tanguis School, Palpa, Ica, Perú, 2018.
- Hall of Fame for Exoplanets. Universidad Católica Sedes Sapientiae, Lima, Perú.
- Formation of Planetary Systems. Astronomical Fridays 2018, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Extrasolar Planets. Astronomical Fridays 2018, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Astronomy and Benefits for Humanity. Astronomical Fridays 2018, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Stephen Hawkings: Life and Legacy. Astronomical Fridays 2018, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Habitable Worlds. Astronomical Fridays 2018, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Drake's Equation and Taking Care the Planet. XXVI Peruvian Symposium of Physics, Universidad Faustino Sánchez Carrión, Huacho, Perú, 2017.
- Astrobiology and Exoplanets. Second Peruvian School of Astronomy "María Luisa Aguilar", Universidad Nacional Mayor de San Marcos, Lima, Perú, 2017.
- Evolution of Stars. Astronomical Fridays 2017, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Neutron Stars. Astronomical Fridays 2017, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Gravity Before Einstein. Astronomical Fridays 2017, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Large Scale Structure of The Universe. Astronomical Fridays 2017, Universidad Nacional Mayor de San Marcos, Lima, Perú.

- Stars, White Dwarfs and Neutron Stars. Astronomical Fridays 2017, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Gravitational Waves. Astronomical Fridays 2017, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Interesting Worlds for Astrobiology. Astronomical Fridays 2017, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Trappist-I: Worlds like our. Astronomical Fridays 2017, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Numerical Simulations on Astronomy. Astronomical Fridays 2016, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- The Dark Side of the Universe. Astronomical Fridays 2016, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- Stellar Spectroscopy. First Peruvian School of Astronomy "María Luisa Aguilar", Universidad Nacional Mayor de San Marcos, Lima, Perú, 2016.
- The Problem of Cosmic Coincidence and Life in the Universe. XXV Peruvian Symposium of Physics, Pontificia Universidad Católica del Perú, Lima, 2016.
- Numerical Simulations and Cosmology. School of Scientific Computation, Faculty of Mathematics, Universidad Nacional Mayor de San Marcos, Lima, Perú, 2015.
- Cosmological Simulations and Dark Energy. School of Scientific Computation, Faculty of Mathematics, Universidad Nacional Mayor de San Marcos, Lima, Perú, 2014.
- Baryon Acoustic Oscillations: The Knowledge of the History of the Universe, Colloquium of Physics, Pontificia Universidad Católica del Perú, Lima, 2014.
- Euclid Space Telescope. International Day of Astronomy, Lima, Perú 2013.
- From the Big Bang to Civilizations, International Seminar of Astrobiology, Universidad Nacional Mayor de San Marcos, Lima, Perú, 2013.
- Cosmology: A Challenge to find the origin to cosmic structure and civilizations, III International Symposium of Astrobiology, Peruvian Space Agency, Lima, Perú, 2013.
- The Shift of Baryon Acoustic Oscillations Peak to Analyse the interactions in the Dark Universe. XXII Peruvian Symposium of Physics. Universidad Nacional Mayor de San Marcos, 2013.
- Exploiting the shift of baryonic acoustic oscillations as a dynamical probe for dark interactions. Department of Astronomy, University of Bologna, Italy, 2012.
- Baryon Acoustic Oscillations. Department of Astronomy, University of Bologna, Italy, 2011.
- What is the Universe Made of?. 100 Hours of Astronomy, Universidad Nacional Mayor de San Marcos, Lima, Perú, 2009.
- History of Cosmology. Astronomy Month in Miraflores. Municipality of Miraflores, Lima, Perú, 2009.
- The Telescope and Cosmology. Workshop on Educational Astronomy for High-School Teachers / Galileo Teacher Training Program, International Astronomical Union and Universidad Nacional Mayor de San Marcos, Lima, Perú, 2009.
- Dark Matter. Astronomical Meeting in Lima, Perú, 2008.

- History of the Universe. Cultural Centre ADUNI, Lima, Perú, 2007.
- Exoplanets and Searching for Extraterrestrial Life. ExpoAstro. Peruvian Space Agency, Lima, Perú, 2006.
- Dark Energy and Accelerated Universe. Convention of Astronomy and Archeoastronomy, Consejo Nacional de Ciencia y Tecnología, Lima, Perú, 2006
- SPACE: A Strategic Plan to Introduce Professional Astronomy in Peru. IV Iberoamerican Congress on Education of Science, National Museum, Lima, Peru, 2006.
- The Accelerated Expansion of The Universe. II International Seminar of Astronomy, Peruvian Space Agency, Lima, Perú, 2004.

Schools and Workshop Participations

- European Week of Astronomy and Space Sciences: IAU100 Years Celebrations Under One Sky, Lyon, France, 2019.
- International Day of Women and Girls in Science. Universidad Nacional Mayor de San Marcos, Lima, Perú, 2019.
- Workshop Astronomía en los Andes. Universidad Nacional de Ingeniería, Lima, Perú, 2019.
- XXVI Peruvian Symposium of Physics. Universidad Faustino Sánchez Carrión, Huacho, Perú, 2017.
- XXV Peruvian Symposium of Physics. Pontificia Universidad Católica del Perú, 2016.
- Scientific Computation Week. Universidad Nacional Mayor de San Marcos, 2015.
- XXII Peruvian Symposium of Physics, Universidad Nacional Mayor de San Marcos, 2013.
- III International Symposium of Astrobiology, Peruvian Space Agency, Lima, Perú, 2013.
- Coloquia in Mathematics, Physics and Astronomical Sciences. University of Bologna, Italy, 2012.
- Coloquia in Mathematics, Physics and Astronomical Sciences. University of Bologna, Italy, 2011.
- Euclid Mission Meeting, Bologna, Italy, 2011.
- School of Astrophysics Francesco Lucchin, Asiago, Bertinnoro, 2011.
- TRR-33 Winter School on Cosmology "Theory for Observers - Observations for Theorists", Passo dil Tonale, Italy, 2010.
- School of Astrophysics Francesco Lucchin, Asiago, Italy, 2010.
- Coloquia in Mathematics, Physics and Astronomical Sciences. University of Bologna, Italy, 2010.
- Second Iberoamerican School of Astrobiology. UNESCO, Universidad de la República, Montevideo, Uruguay, 2009.
- Workshop Cosmological Simulations, ICTP, Trieste, Italy, 2008.
- XII Latin American Regional IAU Meeting. Margarita Island, Venezuela, 2007.
- Insights into Galaxy Evolution from Resolved Stellar Popullations. Universidad de Concepción, Chile, 2007.
- Interferometry in the Epoch of ALMA and VLT. Pontificia Universidad Católica de Chile, 2007.
- IV Iberoamerican Congress on Scientific Education, Lima, Perú, 2006.
- ExpoAstro. Peruvian Space Agency, 2006.
- 28th International School for Young Astronomers. INAOE, Puebla, Mexico, 2005.

Educational Experience

- Co-supervisor undergraduate student Lisseth Gonzales on planetary science, 2018-2019.
- Professor of Physics and Astronomy for undergraduated students on General Physics, Statistical Physics, Classical Mechanics, General Astronomy, Cosmology and Extragalactic Astronomy, 2007-2009, 2013-2017.
- Special counselling for undergraduated students, 2017.
- Professor of Physics for master graduated students on Advanced Classical Mechanics, 2016.
- Co-supervisor undergraduate student Miguel Andrade on extragalactic astronomy and cosmology, 2018.
- Workshop for School Teachers, Fermin Tanguis School, Palpa, Ica, Perú, 2018.
- Instructor of the Project "ENAS: Enseñanza de la Astronomía". a teacher training program in provinces of Perú.
- High school student instructor for the Latinoamerican Olympiads on Astronomy and Astronautics 2018.
- High school student instructor for the Latinoamerican Olympiads on Astronomy and Astronautics 2017.
- High school student instructor for the Latinoamerican Olympiads on Astronomy and Astronautics 2016.
- Workshop on Educational Astronomy for High-School Teachers / Galileo Teacher Training Program, International Astronomical Union and Universidad Nacional Mayor de San Marcos, Lima, Perú, 2009.

Awards

- Illustrious Guest of Ayolas, Paraguay by the Mayor of Ayolas, in recognition of his academic and scientific work in the Latinoamerican Olympiads of Astronomy and Astronautics.
- Prize for the Best Educational Work for Villa el Salvador, BHTv Channel, for the training of olympic gold, silver and bronze medalists in the Latinoamerican Olympiads on Astronomy and Astronautics 2017.

Outreach Articles

- IAU: 100 years under one sky. BlueShift Journal, Peru, January 2019.
- "Sonda Espacial XMM-Newton descubre una enana blanca". Ciencia y Tecnología Diario la Primera, Sepyember 2009.
- "Acercamiento de Júpiter". Ciencia y Tecnología Diario la Primera, August 2009.
- "Sonda Planck: Observando la Primera Luz del Universo". Ciencia y Tecnología Diario la Primera, August 2009.
- "¿Qué opinaría Carl Sagan?" Ciencia y Tecnología Diario la Primera, August 2009.
- "Año Internacional de la Astronomía 2009". Ciencia y Tecnología Diario la Primera, July 2009.
- "Se conocería la primera materia e antimateria". Diario El Comercio, September 2008.

Personal Skills

Languages

- Español: Mother Tongue.
- English: Very Advanced.
- Русский (Russian): Very Advanced.
- Italiano: Advanced.

Organization and Administration

- Genuine leadership, strong administrative and organisational skills.
- Excellent experience of managing educational and scientific work teams and local and national events.
- Ability to work in harmony with co-workers.
- Experienced problem-solving skills and reaction accordingly.

Comunication

- Dozens of outreach and scientific talks.
- Ability to communicate clearly and effectively in any medium.
- Ability to write astronomy outreach articles for journals or newspapers.
- Successfully mediated conflicts between staff and faculty.
- Ability for selecting an appropriate language to the audience.

Comunication

- Windows, MacOSx, Linux.
- Programming Language C/C++.
- Astronomical research softwares (IRAF, CAMB, etc.)
- Audiovisual edition softwares.
- Adobe Lightroom / GIMP edition.

Others

- Honesty, work ethic, flexibility and loyalty.