

Curriculum Vitae

Personal information

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Academic background

08/2020–08/2023 Postdoctoral Fellow, University of California, Los Angeles (UCLA), USA.
 April–Sep 2020 Postdoctoral Fellow, Leiden Observatory, The Netherlands.
 2015–2020 PhD in Astrophysics at Leiden Observatory-Leiden University, The Netherlands. Supervisor: Dr. Anthony Brown. Promotor: Prof. dr. Simon Portegies Zwart. PhD thesis ISBN:9789402820331, Diploma obtained: 04/30/2020.
 2012–2013 Master degree in Astrophysics at Faculty of Science, Universidad Autónoma de Madrid (UAM) – Universidad Complutense de Madrid (UCM), Spain. Supervisor: Dr. Eva Villaver Sobrino.
 2006–2011 Bachelor degree in Physics at Faculty of Science, Universidad Nacional Autónoma de México (UNAM), Mexico. Supervisor: Dr. Barbara Pichardo.

Awards & Distinctions

Summer 2023 Visiting scientist at Max Planck Institute for Astrophysics, Garching, Germany.
 Fall 2022 Visiting scientist Kavli Institute for Theoretical Physics (KITP), Santa Barbara CA, USA.
 2022 ArtSci Fellow, Art Science Center UCLA, Los Angeles CA, USA.
 2020 Howard and Astrid Preston Postdoctoral Fellowship, UCLA, Los Angeles CA, USA.
 2018–2019 PI of pilot program for Cartesius Dutch national super computer. Awarded 500 000 CPU hours.
 2017–2019 PhD research fellowship Leiden Observatory, The Netherlands.
 2015–2019 PhD research prize fellowship National Council of Science and Technology Mexico (CONACYT), taken to Leiden Observatory, The Netherlands.
 2012–2014 Prize fellowship for master studies Becas Campus de Excelencia UAM+CSIC, Spain.

Diversity, Equity and Inclusion Efforts

2022-2023 Founder of The LatinX DEI initiative, Los Angeles, USA. This program aims to help and guide underrepresented teenagers to access higher education.
 2022–present Co-founder and co-leader of the Dynamic Community Seminar of the Division on Dynamical Astronomy (DDA), USA.
 2022–present Co-founder and co-leader of the of the Diversity, Equity and Inclusion initiative of the DDA, USA.
 2021-present ScienceArt: Collective. The collective brings the opportunity to young people to explore art and science and to pursue Art and STEM careers.
 2020–present Co-founder and co-leader of the Diversity, Equity and Inclusion (DEI) initiative of Physics and Astronomy, UCLA, Los Angeles, USA.

Mentorship and Service

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| 2018-present | Referee: The Astrophysical Journal (ApJ), Astronomy & Astrophysics (A&A) and Monthly Notices of the Royal Astronomical Society (MNRAS). |
| 2020-present | Lunch Talk organizer Physics and Astronomy Department, UCLA, Los Angeles, USA. |
| 2022-present | Co-founder of mentoring program of the Division on Dynamical Astronomy (DDA), USA. |
| 2021-present | Bachelor student supervisor of Zoe Juneau – Undergraduate research UCLA, Los Angeles, USA. |
| 2021-2022 | Bachelor student supervisor of Nitya Ravi – Undergraduate research UCLA, Los Angeles, USA. Now PhD student at University of Rochester, New York, USA. |
| 2019 | Master student supervisor of Robin Mentel, Leiden Observatory, Leiden, The Netherlands. Now PhD student at University College Dublin, Ireland. |
| 2017-2018 | Bachelor student supervisor of Dipto Mukherjee – LEAPS program Leiden Observatory, The Netherlands. Now PhD student at Carnegie Mellon University, USA. |
| 2018-2019 | Leader of Gaia group at Leiden Observatory - ESTEC/ESA, Leiden, The Netherlands. |
| 2018 | LOC and SOC of AMUSE workshop, Leiden, The Netherlands. |

Teaching experience (~13 years)

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| 2015–2023 | Lecture: UCLA (Physics 1A, Astronomy and Art), Leiden University (Computational Astrophysics). Teaching assistant (UNAM Mexico (Dynamics and Galactic structure). |
| 2010–2012 | Lecture at Faculty of Science UNAM (2 courses in Astronomy). Teaching assistant (6 courses Selected Topics in Computational Science). |

Scientific talks

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| 2015-2023 | Invited talks: 11, Colloquium: 5, Review talk: 3, Conference contributed talks: 13, Outreach talks: 8 |
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Art & Science (2019-2023)

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| Winter 2024 | Upcoming exhibition: <i>Dark Matters in Between Star Dust</i> , art installation. In collaboration with artists Victoria Vesna (UCLA, Los Angeles CA, USA) and Lucie Strecker (University of Applied Arts, Vienna, Austria). |
| Fall 2023 | Upcoming exhibition: <i>Atmospheric Planet Sound</i> , art installation. To be exhibit at the California NanoSystems Institute (CNSI), Los Angeles CA, USA. |
| 2020-present | <i>[Alien] Star Dust: Signal to Noise</i> , art installation by Victoria Vesna. Collaborator and scientific advisor in presentations at The Natural History Museum in Vienna, Austria, the 2022 Fulcrum Festival in Los Angeles, and the CYLAND festival in St. Petersburg, Russia (2021). |
| September 2022 | Los Angeles Art&Science Fulcrum Festival: Art Installation [Alien] Star Dust Meets Plankton. In collaboration with Victoria Vesna and the ArtSci Center UCLA. |
| 2021-present | Founder of Tertulias of Art, Science and Society. A series of conversations with scientists, artists, philosophers, social scientists, and writers. |
| 2020-present | Founder of the Science-Art Collective (SAC). A space to build collaboration within artists and scientists worldwide. |
| April 2022 | CYFEST-13, Art and Science Festival, Moscow, Russia (Virtual). Invited interview. |
| 2022 | Daily Bruin Feature: ArtSci Center, UCLA, Los Angeles, USA. Invited interview. |
| 2022 | Pratt Institute, Art and Science with Dr. Ellen K Levy, New York, USA. Invited interview. |
| 2019 | Science meets Art meets Science. Collaboration with the Royal Academy of Arts The Hague, The Netherlands. Invited talk. |