List of talks and conferences

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List of seminars and conference talks, as well as participation in other conferences, meetings and workshops.

Seminars

Jul. 28 2022 *Neural Terramechanics and the RACER-SIM project*. EAI Tech Forum, Intel Labs, online

Nov. 17 2021 *Machine Learning at galactic and cosmological scales*. IFIC. | Video and slides

Dec. 6 2019 *Constraining Dark Matter scenarios through 21 cm cosmology*. Université Libre de Bruxelles, Brussels, Belgium.

Oct. 14 2019 *Constraining Primordial Black Hole scenarios with 21 cm cosmology*. Department of Astrophysical Sciences, Princeton University, USA.

May 6 2019 *Exploring Dark Matter scenarios through 21 cm Cosmology*. IFIC.

Dec. 7 2018 *Constraints on Dark Matter scenarios through 21 cm Cosmology*. IFIC.

Oct. 25 2018 *Constraining astrophysical and Dark Matter scenarios with EDGES and Reionization data*. University of Nagoya, Japan.

Oct. 23 2018 *Constraining astrophysical and Dark Matter scenarios with EDGES and Reionization data*. Kavli IPMU, University of Tokyo, Japan.

Conferences, workshops & meetings

Dec. 2021 *CAMELS meeting*, online, organized by the Flatiron CCA.
- **Talk:** *Inferring cosmology from galactic features.*

Nov. 2021 *CAMELS meeting*, online, organized by the Flatiron CCA.
- **Talk:** *Weighing the Milky Way and Andromeda with Graph Neural Networks.*

Jul. 2021 *CAMELS meeting*, online, organized by the Flatiron CCA.
- **Talk:** *Predicting halo masses with Graph Neural Networks.*

Nov. 2020 *AI@IFIC (Artificial Intelligence at IFIC)*. Instituto de Física Corpuscular.
- **Talk:** *Recovering the Dark Matter density field from 21cm maps via CNNs.*

Apr. 2020 Hackaton *CoronaHack - AI vs. Covid-19*. Online, organized by mindstream-ai.

Jun. 2019 *Invisibles19 Workshop*. Jardí Botànic de la UV, València. **Member of the local organizing committee.**
- **Talk and poster:** *Local 21 cm signal from Primordial Black Holes.*

Mar. 2019 Symposium *Data science symposium, bridging fundamental research and industry*. Universidade do Minho, Braga, Portugal.

Sep. 2018 *IGM 2018: Revealing Cosmology and Reionization history with the Intergalactic Medium*. Kavli IPMU, University of Tokyo, Japan.

May 2018 *Statistical Challenges in 21st Century Cosmology*. Universitat de València.

Nov. 2017 *Physics opportunities with a new universe's view: the SKA radio telescope.* Instituto de Física Corpuscular.
- **Talk:** *Warm dark matter and cosmic reionization.*

Sep. 2017 *Meeting on Fundamental Cosmology.* Centro de Estudios de Física del Cosmos de Aragón (CEFCA).
- **Talk:** *Warm dark matter and the ionization history of the Universe.*

Courses & schools

Apr.-May 2020 Course *Introduction to Machine Learning for Particle Physicists.* Instituto de Física Corpuscular.

Jun. 2019 *Invisibles19 School.* Laboratorio subterráneo de Canfranc (LSC). **Member of the local organizing committee.**
- **Poster:** *Local 21 cm signal from Primordial Black Holes.*

Mar. 2019 School *Data science in (astro)particle physics and cosmology: the bridge to industry.* Universidade do Minho, Braga, Portugal.

Jun. 2018 School *Cosmological Applications from First Stars, Reionization and 21-cm Observations.* Institut de Ciències del Cosmos Universitat de Barcelona (ICCUB).
- **Talk and poster:** *EDGES result versus CMB and low-redshift constraints on ionization histories.*

May 2018 School *Astronomical Data Analysis school ADA IX.* Universitat de València.

Feb. 2017 Course *Data analysis and machine learning -Phyton-.* Universitat de València.

As well as other special courses and schools on theoretical physics, cosmology and computational tools.