Talks at conferences and workshops

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1. CERN EP-IT Data Science seminar	CERN, Switzerland
"LATEST MACHINE LEARNING DEVELOPMENTS FOR THE LHCB EXPERIMENT"	10th Jul. 2024
Invited seminar (link). Julián García Pardiñas, on behalf of the LHCb collaboration.	
2. CMS ML Hackathon: Anomaly Detection for monitoring, validation and discovery	CERN, Switzerland
"Reinforcement learning for automatic data quality monitoring in HEP experiments"	2nd Jul. 2024
Invited talk. Julián García Pardiñas.	
3. Workshop: 7th General Meeting of the LHC EFT Working Group	CERN, Switzerland
"Recent LHCB results in $b \to c \tau \nu$ and $b \to s ll$ "	24th Apr. 2024
Invited plenary talk. Julián García Pardiñas, on behalf of the LHCb collaboration	
4. Conference: 58th Rencontres de Moriond EW Conference	Val d'Aoste, Italy
" $b \rightarrow c \tau \nu$ decays at LHCB"	27th Mar. 2024
Plenary talk. Julián García Pardiñas, on behalf of the LHCb collaboration.	
5. Workshop: Software Framework(s) for LHCb's Future - LHCb internal	Marseille, France
"Common requirements and developments for ML infrastructure"	24th Nov. 2023
Plenary talk (protected link). Julián García Pardiñas and Maarten Van Veghel.	
6. Workshop: Beyond the flavour anomalies IV	Barcelona, Spain
"Experimental perspective on $B_{(s)} o K^{(*)0} \overline{K}^{(*)0}$ decays"	20th Apr. 2023
Invited plenary talk. Julián García Pardiñas.	
7. Workshop: ML4JETS 2022	Rutgers University, US
"Graph Neural Networks for a Deep-learning based Full Event Interpretation (DFEI) at	4th Nov. 2022
THE LHCB TRIGGER"	1111100.2022
Julián García Pardiñas.	
8. Conference: ICHEP 2022	Bologna, Italy
"A Deep-learning based Full-Event Interpretation (DFEI) algorithm for the	
IDENTIFICATION AND HIERARCHICAL RECONSTRUCTION OF HEAVY-HADRON DECAY CHAINS IN	8th Jul. 2022
PROTON-PROTON COLLISIONS"	
Julián García Pardiñas.	
9. Workshop: Beyond the flavour anomalies III	IPPP, University of Durham, UK
"The key open questions for the current measurements and predictions of $R(D)$ and $R(D^*)$ "	26th Apr. 2022
Invited plenary talk. Julián García Pardiñas and Martin Jung.	
10. Workshop: Weak Interactions and Neutrinos (WIN) 2021	University of Minnesota, US
"Anomalies in B decays, an experimental overview"	11th Jun. 2021
Plenary talk. Julián García Pardiñas, on behalf of the LHCb, ATLAS and CMS collaborations.	
11. Workshop: Implications of LHCb measurements and future prospects	CERN, Switzerland
"Semileptonic decays at LHCb"	17th Oct. 2019
Plenary talk. Julián García Pardiñas, on behalf of the LHCb collaboration.	
12. Swiss Physics Society & Austrian Physics Society Annual Meeting	Zürich, Switzerland
"CP violation in beauty and charm at LHCB"	28th Aug. 2019
Julián García Pardiñas.	
13. Workshop: Weak Interactions and Neutrinos (WIN) 2019	Bari, Italy
"B-flavour anomalies in $b ightarrow sll$ and $b ightarrow cl u$ transitions at LHCb"	5th Jun. 2019
Julián García Pardiñas, on behalf of the LHCb collaboration.	
14. Conference: La Thuile 2019	Val d'Aoste, Italy
"Searches for NP with rare, semileptonic, and radiative decays of heavy-flavour	13th Mar. 2019
HADRONS AT THE LHC"	
Plenary talk. Julián García Pardiñas, on behalf of the LHCb and CMS collaborations.	
15. Conference: SUSY 2018	Barcelona, Spain
"CP violation in B decays at LHCB"	23rd Jul. 2018
Julián García Pardiñas, on behalf of the LHCb collaboration.	

16. Conference: 53rd Rencontres de Moriond EW	Val d'Aoste, Italy
"Measurements of CPV in beauty at LHC"	11th Mar. 2018
Plenary talk. Julián García Pardiñas, on behalf of LHCb, ATLAS and CMS.	
17. Conference: 13th Rencontres du Vietnam	Quy Nhon, Vietnam.
"Searches for LFU breaking at LHCB"	14th Aug. 2017
Plenary talk. Julián García Pardiñas, on behalf of the LHCb collaboration.	
18. Conference: CKM 2016	Mumbai, India
"CPV RESULTS FROM TIME-DEPENDENT ANALYSIS OF $B_s^0 \to (K^+\pi^-)(K^-\pi^+)$ " Julián García Pardiñas, on behalf of the LHCb collaboration.	1st Dec. 2016
Teaching activities	
"2023 CERN-Fermilab Hadron Collider Physics Summer School"	CERN, Switzerland
(https://indico.cern.ch/event/1234112/)	
School targeted at young postdocs and senior PhD students.	
• Discussion leader (22/08/2023 - 31/08/2023).	
International summer school: "Advances in Artificial Intelligence"	Como, Italy
(https://aisummerschool.disco.unimib.it/home)	como, naiy
Lecture: "Graph Neural Networks for Particle Physics" (21/09/2022).	
Courses at the University Zürich, B.Sc. Natural Sciences	Zürich, Switzerland
 Physics I: coordinator of the exercise classes and exams (09/19 - 01/20 and 09/18 - 01/19). Physics II: coordinator of the exercise classes and exams (02/19 - 05/19). 	
Courses at the Uninversity of Santiago de Compostela, B.Sc. Physics	Santiago de Compostela, Spain
 Mathematical Methods I: exercise classes (09/17 - 12/17). Nuclear and Particle Physics: exercise classes (09/17 - 12/17, 09/16 - 12/16 and 10/15 - 12/15). Experimental Techniques III: laboratory (02/17 - 05/17 and 01/16 - 05/16). 	

Mathematical Methods III: exercise classes (01/16 - 05/16).

Outreach activities

CERN EP Newsletter article

OPINION ARTICLE DISCUSSING ASPECTS OF MACHINE LEARNING FOR PHYSICS *Sep. 2024*[In preparation]. Preliminary title: "Machine Learning in action: shaping the future of LHCb and fostering cross-experiment collaboration".

CERN Masterclass

Organised by universities in collaboration with CERN

Editions: 2021 LHCb Masterclass (UNIMIB, 02/21), 2017 CMS Masterclass (USC, 04/17), 2016 CMS Masterclass (USC, 03/16), 2015 CMS Masterclass (USC, 03/15), 2014 ATLAS Masterclass (USC, 03/14).

Summer Scientific Campus on the LHC for High School Students

ORGANISED BY THE UNIVERSITY OF SANTIAGO DE COMPOSTELA AND THE SPANISH GOVERNMENT Role: organiser, speaker and instructor during the lab sessions.

Santiago de Compostela, Spain

1st of Jul. 2017 - 31st Jul. 2017