Eduardo Rodrigues

Name: Eduardo Rodrigues Place of Birth: Lisbon, Portugal eduardo.rodrigues@cern.ch Date of Birth: 25/06/1972

HIGHLIGHTS from CURRENT ACTIVITIES and LEADERSHIP ROLES

- LHCb Collaboration Data Processing & Analysis Project Leader, since Autumn 2020
- Founder and chair of organising committee of series of workshops PyHEP, "Python in HEP", since 2018
- Initiator and co-convener of the HEP Software Foundation's (HSF) PyHEP Working Group, since 2018
- Founder and leader of Scikit-HEP project (Python ecosystem for Particle Physics), since late 2016
- Co-convener of UK's SWIFT-HEP C&SW project Data Analysis Working Group, since 2021
- Editorial Board member or reviewer for several physics and software related journals

CURRENT and RECENT EMPLOYMENTS

01/2020 – present Senior Research Physicist with the University of Liverpool, U.K. Core position.

Participation in the LHCb experiment.

02/2016 – 12/2019 Research Scientist with the University of Cincinnati, U. S. A.

Participation in the LHCb experiment and the NSF-funded software project

DIANA/HEP (Data-Intensive ANAlysis for High Energy Physics).

Cincinnati LHCb deputy Group Leader.

AWARDS, INTERNATIONAL RECOGNITION, ELECTED POSITIONS

12/2017 – present High Energy Physics Software Foundation (HSF) Coordination Team member

2015 – 2017 Visiting scientist, National Center for Theoretical Sciences (NCTS),

National Tsing Hua University (NTHU), Hsinchu, Taiwan

Journals and LHCb Review Committees

- Editorial Board Member and reviewer: Nature Scientific Reports, Big Data and AI in High Energy Physics (specialty section of Frontiers in Big Data)
- Reviewer: Computing and Software for Big Science (CSBS), SoftwareX, Progress of Theoretical and Experimental Physics (PTEP)
- On LHCb analysis review committees since 2011
- Reviewer of (virtual) CHEP 2021 International Conference proceedings

Editing Roles (recent)

2021 Editor and author of LHCC HL-LHC Computing Review Stage-2: Common Software

Projects - Data Science Tools, under preparation

11/2017 – 03/2019 Editorial Board member, HSF Community White Paper A Roadmap for HEP

Software and Computing R&D for the 2020s, HSF-CWP-2017-01, arXiv:1712.06982

[physics.comp-ph]

Conference Committees (recent)

2021 Programme Committee member for (virtual) CHEP 2021 – 25th International

Conference on Computing in High-Energy and Nuclear Physics

2018 – present Founder and chair of organising committee of workshop series

PyHEP - "Python in HEP".

03/2019 Co-convener of HSF's PyHEP WG session at the 2019 Joint HSF/OSG/WLCG

Workshop "HOW 2019", Jefferson Laboratory, Newport News, Virginia, US

03/2018 Co-convener session "Analysis facilities and use cases", WLCG-HSF Workshop,

Naples, Italy

Invited Scientific Lectures (recent)

06/2021 ESCAPE Summer School 2021, Data Science for Astronomy, Astroparticle and

Particle Physics (online event)

10/2020 STFC School on Data Intensive Science 2020, "LIV.DAT 2020" (online event)

PhD examinations (recent)

2018, 2021 External examiner: EPF, Lausanne; University of Milan Bicocca

SUMMARY of PUBLICATIONS, SEMINARS and TALKS

Over 700 publications including peer-reviewed articles, conference proceedings and reports.

Over 70 conference and workshop presentations, and seminars.

Over 200 talks, in particular at various LHCb meetings related to physics, software and computing, tracking, trigger and reconstruction. A full list can be found at cern.ch/eduardo.rodrigues/talks.html.

- In the LHCb experiment authors list since mid 2002: close to 600 physics publications, of order 30 physics-related and technical reports, 10 conference notes.
 Full list of LHCb physics publications from iNSPIRE. Of the published papers, 7 have 500+ citations.
- 5 publications on Flavour Physics phenomenology and 3 review articles.
- Several publications on computing & software in Particle Physics.
- In the ZEUS authors list for the period 10/1999 08/2003: 49 publications.

Highlight recent talks

- LHCb input, HSF HL-LHC Analysis Mini-Workshop, virtual event, 4 May 2021
- PyHEP WG activities and the PyHEP 2020 workshop, HSF WLCG Virtual Workshop, virtual event, 19
 24 November 2020
- b-baryon decays, FPCP 2020 18th Conference on Flavor Physics and CP Violation, Illa Da Toxa, (Spain) - virtual event, 8-12 June 2020
- The Scikit-HEP project overview and prospects, CHEP 2019 24th International Conference on Computing in High Energy and Nuclear Physics, Adelaide Convention Centre, Adelaide (Australia), 4 -8 November 2019
- Analysis software and workflows in LHCb, Belle II Software Workshop, Garching, 1 5 July 2019
- The Scikit-HEP project, CHEP 2018, Sofia, 9 13 July 2018
- HSF Community White Paper review & outlook, Joint WLCG & HSF Workshop 2018, Naples, 26 - 29 March 2018
- Charmless B decays at LHCb, EPS-HEP 2017, Venice, 5 12 July 2017

SOFTWARE PROJECTS

10/2016 – present	Founder and leader of Scikit-HEP project, a community-driven and community-
	oriented Python toolset for Particle Physics. Project officially supports ATLAS, Belle-
	II, CMS, KM3NeT and LHCb.
05/2017 - 08/2017	Google Summer of Code (GSoC) 2017 programme. Mentor for the CERN-HSF
	organisation, with one project approved.

LEADERSHIP POSITIONS - LHCb EXPERIMENT

09/2020 – present	Project Leader of Data Processing & Analysis project (offline)
10/2014 – 12/2019	Coordinator of the offline Physics Analysis software group
2012 – 2016	Roles of Convener of Physics Working Group on Charmless b-hadron Decays,
	Co-convener of 2-body charmless B decays and of B2OpenCharm time-dependent
	Physics Analysis Groups
2008 – 2014	Various roles in Vertex Detector project: Deputy Project Leader, Software
	Coordinator, Data Quality Coordinator
2014 – 2016, 2020 –	Physics Planning Group member
09/2020 - present	Member of Operations Planning Group, Physics Planning Group,
·	Upgrade Software Planning Group
2012 – 2014, 2020 –	Technical Board member

CONTRIBUTIONS to WORKSHOPS and CONFERENCES

1999 – present	Over 40 participations. Plenary and parallel invited talks on a broad set of topics.
	Conferences include Beauty, CHEP, CKM, DISCRETE, EPS-HEP, FPCP, HERA
	and the LHC, HSF/WLCG, ICATPP, IoP, Moriond, PASCOS, PyHEP, Vertex.
	Full list at cern.ch/eduardo.rodrigues/talks.html#presentations.

RECENT GRANT APPLICATIONS

2018 – present	Sponsorships for the PyHEP workshops from the Python Software Foundation (PSF), IRIS-HEP, Fermilab, Nikhef, Software Sustainability Institute (SSI), University of Liverpool
2021	Researcher Co-investigator on the Liverpool University 5-year Consolidated Grant Proposal