

UNIVERSITY OF MILAN

Public selection for recruiting No.1 tenure track researcher(s) (RTT) for competition sector 02/A2 - Theoretical Physics of Fundamental Interactions, (scientific-disciplinary sector PHYS-02/A - Theoretical Physics of Fundamental Interactions, Mathematical Methods and Models for Applications) at the Department of PHYSICS "ALDO PONTREMOLI", (announcement published in Official Gazette No. 49 of 18/06/2024) - Competition code 5577.

Ayodele Ore

CURRICULUM VITAE

PERSONAL DATA

SURNAME	ORE
NAME	AYODELE
DATE OF BIRTH	April 23rd 1997

QUALIFICATIONS

DEGREE

(Specify full degree name and related score, University, date, thesis title, etc.)

- Bachelor of Science, The University of Melbourne
Completed Dec 19th 2017
Weighted average mark: 77.917
- Master of Science (Physics) ((with Distinction)), The University of Melbourne
Completed Dec 16th 2019
Weighted average mark: 87.875
Thesis title: "Deep Jets: Boosted W tagging with Energy Flow Networks"

DOCTORAL DEGREE OR EQUIVALENT QUALIFICATION EARNED IN ITALY OR ABROAD / MEDICAL SPECIALISATION DIPLOMA OR EQUIVALENT QUALIFICATION, FOR THE RELEVANT SECTORS, EARNED IN ITALY OR ABROAD

Doctor of Philosophy, The University of Melbourne
Apr 30 2024
Thesis title: "Addressing domain shift in deeply-learned jet tagging at the LHC"

RESEARCH CONTRACTS, RESEARCH FELLOWSHIP CONTRACTS, POSTDOCTORAL SCHOLARSHIPS OR SIMILAR CONTRACTS

Postdoctoral Research contract
Institute for Theoretical Physics, Heidelberg University
From Oct 2023 - Present

TEACHING ACTIVITIES AT ITALIAN OR FOREIGN UNIVERSITIES

- Machine Learning Tutor, Heidelberg University
Master course: Machine Learning and Physics
Winter semester 2023/2024
- Scientific Computing Tutor, The University of Melbourne
Master course: COMP90072 - The Art of Scientific Computation
3 semesters 2021 - 2022
- Physics Laboratory instructor, The University of Melbourne
Undergraduate course: PHYC30021 - Laboratory and Computational Physics 3
6 Semesters 2020 - 2022
- Physics Tutor, The University of Melbourne
Undergraduate courses: PHYC10003 - Physics
PHYC10005 - Physics 1 Fundamentals
PHYC10002 - Physics 1 Advanced
6 Semesters 2018 - 2020

SPEAKING AT NATIONAL AND INTERNATIONAL CONFERENCES AND CONVENTIONS

- “Quark/gluon tagging in CMS Open Data with CWoLa and TopicFlow”
at EuCAIFCon (University of Amsterdam)
on 1 May 2024
- “Quark versus gluon tagging in CMS Open Data with CWoLa and TopicFlow”
at ML4Jets (Hamburg University)
on 8 November 2023
- “Conditional generative networks for pure quark and gluon jets”
at ML4Jets (Rutgers University)
on 1 November 2023
- “Equivariant energy flow networks for jet tagging”
at ML4Jets (Heidelberg University)
on 16 July 2021

SCIENTIFIC PUBLICATIONS

- ‘CaloDREAM - Detector Response Emulation via Attentive flow Matching’
Luigi Favaro, Ayodele Ore, Sofia Palacios Schweitzer, and Tilman Plehn
Preprint, arXiv:2405.09629 [hep-ph]
- ‘Quark-versus-gluon tagging in CMS Open Data with CWoLa and TopicFlow’
Matthew J. Dolan, John Gargalionis and Ayodele Ore
Preprint, arXiv:2312.03434 [hep-ph]
- ‘TopicFlow: Disentangling quark and gluon jets with normalizing flows’
Matthew J. Dolan and Ayodele Ore
Published 1 June 2023 in Physical Review D
doi: 10.1103/PhysRevD.107.114003

List continues over page

- 'Metalearning and data augmentation for mass-generalized jet taggers'

Matthew J. Dolan and Ayodele Ore

Published 24 May 2022 in Physical Review D

doi: 10.1103/PhysRevD.105.094030

- 'Equivariant Energy Flow Networks for Jet Tagging'

Matthew J. Dolan and Ayodele Ore

Published 27 April 2021 in Physical Review D 103 (2021), 074022

doi: 10.1103/PhysRevD.103.074022

Date

18/07/2024

Place

Heidelberg