

LUCAS HENRY MCCONNELL

PERSONAL DATA

PLACE AND DATE OF BIRTH: SOUTH AFRICA | 19 DECEMBER 1990
CITIZENSHIP: IRISH AND SOUTH AFRICAN
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EDUCATION

2017 MASTER OF SCIENCE IN PHYSICS,
The University of Cape Town, CAPE TOWN, SOUTH AFRICA
THESIS: "SUPPRESSION OF THE FAKE LEPTON BACKGROUND IN SAME-SIGN
W-BOSON SCATTERING WITH THE 'ATLAS EXPERIMENT'"
ADVISORS: DR SAHAL YACOOB AND DR ANDREW HAMILTON

DECEMBER 2014 BACHELOR OF SCIENCE HONOURS IN PHYSICS,
The University of Cape Town, CAPE TOWN, SOUTH AFRICA
THESIS: "USING A CLASSICAL GLUON CASCADE TO STUDY THE EQUILIBRATION OF
A GLUON-PLASMA"
ADVISOR: PROF. ANDRE PESHIER

DECEMBER 2013 BACHELOR OF SCIENCE
Majors in Applied Mathematics, Mathematics, and Physics,
The University of Cape Town, CAPE TOWN, SOUTH AFRICA

DECEMBER 2009 NATIONAL SENIOR CERTIFICATE, **Bridge House College**, SOUTH AFRICA

WORK EXPERIENCE

2015	SUMMER STUDENTSHIP (NON-MEMBER STATE) AT CERN (EUROPEAN ORGANISATION FOR NUCLEAR RESEARCH), GENEVA, SWITZERLAND PARTICIPATED IN AN EXPERIMENTAL ANALYSIS CONCERNING CHARGE PARTICLE MULTIPLICITIES WITH THE LHCb COLLABORATION.
2017-CURRENT	TUTOR AT SELF-EMPLOYED (FULL-TIME), GALWAY, IRELAND PRIVATELY TUTORING IRISH UNIVERSITY STUDENTS IN MATHEMATICS AND PHYSICS AT THE NATIONAL UNIVERSITY OF IRELAND GALWAY AND THE GALWAY-MAYO INSTITUTE OF TECHNOLOGY.
2014-2017	TUTOR AT TIPTOP TUTORS (PART-TIME), CAPE TOWN, SOUTH AFRICA WORKED FOR A PRIVATE TUTORING COMPANY. TUTORED MATHEMATICS AND PHYSICS AT A HIGH SCHOOL AND EARLY UNDERGRADUATE LEVEL.
2014-CURRENT	TUTOR AT UNIVERSITY OF CAPE TOWN (PART-TIME), CAPE TOWN, SOUTH AFRICA TUTORED AND DEMONSTRATED (EXPERIMENTAL PRACTICALS) FOR FIRST YEAR PHYSICS COURSES.
2010-2013	TECHNICAL CLERK AT SA FIVE ENGINEERING (PART-TIME), CAPE TOWN, SOUTH AFRICA HAD RESPONSIBILITIES EQUIVALENT TO A TRAINEE ENGINEER AND LEARNT BASIC CONSTRUCTION WORK, INCLUDING GRINDING, CUTTING, AND WELDING.

SCHOLARSHIPS AND CERTIFICATES

SEPT. 2015	GRADUATE OF THE CERN SCHOOL OF COMPUTING IN KAVALA, GREECE
2015-2017	NATIONAL RESEARCH FOUNDATION (NRF) INNOVATION MASTERS SCHOLARSHIP
2014	JOSEPH STONE POST-GRADUATE BURSARY

PUBLICATIONS

"USING A CLASSICAL GLUON CASCADE TO STUDY THE EQUILIBRATION OF A GLUON-PLASMA",
JOURNAL OF PHYSICS: CONFERENCE SERIES **645** (2015) 012013

"ESTIMATION OF JET-FAKED MUON BACKGROUND IN W-BOSON SCATTERING AT $\sqrt{s} = 13$ TeV
WITH THE ATLAS DETECTOR",
PROCEEDINGS OF SAIP2016, SA INSTITUTE OF PHYSICS, ISBN: 978-0-620-77094-1

CONFERENCE AND WORKSHOP ATTENDANCE

DEC. 2016	ATTENDANCE AT THE <i>International Workshop on Discovery Physics at the LHC</i> AT THE KRUGER NATIONAL PARK, SOUTH AFRICA
NOV. 2016	ATTENDANCE AT THE <i>Bayes School 2016</i> AT THE UNIVERSITY OF STELLENBOSCH, SOUTH AFRICA
JUNE 2016	POSTER PRESENTATION AT THE SOUTH AFRICAN INSTITUTE OF PHYSICS ANNUAL CONF. HELD AT THE UNIVERSITY OF CAPE TOWN, SOUTH AFRICA
SEPT. 2015	GRADUATED FROM THE <i>CERN School of Computing</i> IN KAVALA, GREECE
FEB. 2015	PRESENTED AT HIGH ENERGY PARTICLE PHYSICS WORKSHOP AT THE UNIVERSITY OF THE WITSWATERAND, SOUTH AFRICA

LANGUAGES

ENGLISH: MOTHER TONGUE
AFRIKAANS: WORKING KNOWLEDGE
FRENCH: BASIC KNOWLEDGE
IRISH: BASIC KNOWLEDGE

COMPUTER SKILLS

BASIC KNOWLEDGE: HTML, LINUX, MATHEMATICA
INTERMEDIATE KNOWLEDGE: C++, PYTHON, BASH, ROOT, ~~TEX~~ L^AT_EX
SPECIALIST KNOWLEDGE: FAMILIAR WITH THE ATLAS COLLABORATION SOFTWARE

INTERESTS AND ACTIVITIES

VOLUNTEER WITH THE ORDER OF MATLA AMBULANCE CORPS,
RUNNING, HIKING, TECHNOLOGY, PROGRAMMING,
TRAVELING (EXTENSIVELY TRAVELED IN EUROPE AND NORTH AMERICA),
LITERATURE, AND HISTORY