Laurie M^cClymont – Curiculum Vitae

Mobile Phone +447951694231 Date of Birth 25^{th} October 1991

Email laurie.mcclymont@cern.ch Nationality British

Personal Profile

• I am a physicist in the ATLAS collabortion analysing the huge amount of data produced by the Large Hadron Collider experiment in the search for new physics beyond our current understanding

- This has given me experience of analysing and understanding large data sets with computational tools within a collaborative environment and would like to apply these skills to real-world problems.
- I believe that my natural curiosity, computational skills, collaborative experience and strong mathematical problem solving background, make me well suited to a role in data science.

Research Experience

Sep 2014 - High Energy Physics Group, University College London

Present PhD Candidate

- Member of the ATLAS collaboration searching for new physics using large data sets.
- Worked within many teams, in an international collaboration of 3,000 scientists.
- Collaborated on large scale data analysis projects using Python, C++ and GitHub.
- Lead analyser measuring the efficiency of the ATLAS b-jet trigger
 - A technical measurement that is essential for many analyses within the collaboration
 - Involved detailed study and understanding of a complicated data-set
 - Measurement performed to relevant deadlines and effectively communicated to users.
- An analyser in a team searching for new physics using pairs of b-jets.
 - We use a multi-variate algorithm to identify signal and reject background.
 - I analysed the effect of the algorithm on the background.
 - I validated the fit function used to predict the background in data, by analysing the peformance of the fit function peformance many pseudo-data sets taken from simulation.
- Had an 18 month placement at the main CERN site in Geneva.
- Selected to present results to technical audiences; including large scientific conferences and workshops.
- Involved in public outreach explaining current research to non-physicists, including school visits.

June 2012 - Institute of Astronomy, University of Cambridge

Sep 2012 Summer Research Intern

- Spent 8 weeks during the summer analysing data from two large astonomical telescopes
- Used a statistical profile likelihood method to identify possible quasar candidates for futher study.

Education

2010-14 Merton College, University of Oxford

MPhys Physics - 2:1 (68%)

- Courses including mathematical problem solving in a number of physical situations.
- Received a distinction in my 1st year of study.

2004-14 Altrincham Grammar School For Boys

A-Levels: Maths, Futher Maths, Physics, History (A^*, A^*, A^*, B)

Software Engineering Skills

• Python 2 years experience of use in large scale data analysis.

• C++ 3+ years experience of use in large scale data analysis.

• GitHub 2+ years experience for version control in group and private analysis projects.

• SQL Self taught using online tutorials and private projects.

• Python Libs Self-taught use of data-science python libraries (pandas, numpy, seaborn, scikit-learn)

• Misc. Excel, LaTeX, Word, bash, linux operation system

Interests

Ballerhonton, Tennis, Running, Cycling, Sailing

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- ■Creatlive Writing
- ■Phb@thgraphy
- Cahe Mechanics

Referees

NameBill LumberghNameMichael "Big Mike" TuckerCompanyInitech Inc.CompanyBurbank Buy MorePositionVice PresidentPositionStone Monograph

PositionVice PresidentPositionStore ManagerContactbill@initech.comContactmike@buymore.com