

Khadeejah Moahammed ALGhadeer

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EDUCATION

Doctorate of Philosophy, Engineering Physics, High Energy Physics
Louisiana Tech University, Ruston, Louisiana

May 2016

Dissertation: STUDY OF FACTORIAL MOMENTS AND INTERMITTENCY IN PP COLLISIONS AT
 $\sqrt{s} = 13$ TeV

Master of Science, Applied Physics

Louisiana Tech University, Ruston, Louisiana

November 2010

Thesis: Optimization of A Discone Antenna Array in the ULTRA-Wide Band Frequency Domain

Bachelor of Science, Physics

Al-Hassa Education College

June 2001

DOCTORAL WORK

ATLAS Experiment

May 2011 - May 2015

- Served as CaloMonitoring software expert in ATLAS experiment May 2015
- Maintained and developed software package that ran online, offline at different ATLAS Athena release and reduce software CPU time that contributed in the discovery of the subatomic particle, Higgs Boson during the year 2012 as a calorimeter monitoring expert
- Analyzed sub-detector system histograms according to different algorithms and shift conditions
- Performed ATLAS control room shift, Data quality ATLAS control room shift, Data quality shift, optimizing and maintaining Calomoinitoring software shift to monitor the quality of proton proton collision data collected during the year 2012
- Trained and assisted associates in the field

High Energy Physics Monte Carlo Simulation

June 2015 to May 2016

- Comparison of particle distribution according to different Monte Carlo Simulation
- Studying and analyzing the behavior of the particle distribution at different phase space
- Solving the technical problems / issues related to the installation, compiling, and setup of different Monte Carlo concurrently
- Writing analysis describing multiplicity fluctuations and multiparticle correlations where to match the theoretical prediction to the Monte Carlo Simulation
- Maintain and manage high standard of communication with team members related to the field

EXPERIENCES AND SKILLS

Computer/Research

- Use different programming language like C++, Matlab, Root, Mathematica, Rivet, Latex
- Attended different online seminars in Mathematica and Matlab
- Attended The 11th workshop on Applied Antineutrino Physics at the Virginia Tech Research Center in Arlington, VA on December 7-8, 2015
- Attended different seminars cellular phone radiations, proton cancer therapy, and brain Imaging
- Attended Microsoft Cloud Roadshow conference on November 2-3, 2015.
- Attended International Linear Collider anWorldwide Event handover ceremony of the Technical Design Report for the International Linear Collider on 12 June 2013
- Proficient in Microsoft programs, Excel, Word, Power Point, Typing English/Arabic
- Experience in Vector network analyzer (Anritsu model 3727D)
- Experience in operating system Linux, software engineer
- Motivate individual for an affective work

Cultural/Interpersonal

- Fluent in Arabic (oral/written), fluent in English.
- Lived in Saudi Arabia, USA, France, and worked in Geneva.

EMPLOYMENT HISTORY

Physics Instructor AL-Ayoun Secondary School, Saudi Arabia	September 2006 - December 2006
Customer Service Representative Direct English Institute, Saudi Arabia	September 2004 - January 2006
Laboratory Assistant AL-Khaleej Training & Education, Saudi Arabia	June 2004 - August 2004

HONORS

- Received the title of the Distinctive Student in 2000 during teaching practice
- Received a Certificate of Appreciation in 1999 from Al-Hasa Education College for participating in the celebration of continuing 100 years after the unifying of the Kingdom of Saudi Arabia

ACTIVITIES

- International Culture Organization at Louisiana Tech, 2011 Managed and coordinated fund raising effort for China earth quake
- Accomplished professional personal photographer, served at AL-Sabah Studio For Women & Children, 1996 – 2001
- Louisiana Tech Alumni Association, 2010