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Qing Wang • 1 度

Research Assistant at University of Oklahoma

Norman, Oklahoma

University of Oklahoma

University of Oklahoma

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Qing Wang
Research Assistan...

要點整理

8 位共同聯絡人

您和Qing的共同聯絡人：Lin Lei、Brent McCoy, Ph.D.和其他 6 人

共同公司：CERN、University of Oklahoma

在CERN的重疊時間：2016 年 9 月 – 2017 年 9 月

打個招呼

展開

工作經歷

Research Assistant

University of Oklahoma

2017 年 9 月 – 目前 · 1 年 2 個月

Norman, Oklahoma, USA

Continued to work on a project searching for the new generation of quarks and Dark Matter particles, which are the frontier fields in particle physics study, using similar techniques, the C++–based statistical analysis tool, Python, regression and data visualization. Decided to use these methods to solve real–life problems and have been actively seeking for a Data Scientist job.

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王庆 • 3 度
Acoustic Engineer – Knowles Intelligent Audio

Pria Kaushik N
Assistant Vice President Goldman Sachs

–Wrapped up the analysis done in the past few years and wrote the PhD thesis.
–Took several online courses to refresh and learn the skills needed for a Data Scientist role, such as probability and statistics, SQL, general linear regression, logistic regression, tree–based models and more advanced machine learning models that are now popular in the tech companies.
–Attended an online career boot camp to learn more advanced topics like Natural Language Process (NLP), recommendation system and also to gain some project experience. 收回

Doctoral Research

CERN
2016 年 9 月 – 2017 年 9 月 · 1 年 1 個月
Geneva Area, Switzerland

Worked as an experimental particle physics researcher on the ATLAS collaboration at CERN and a PhD candidate for the University of Oklahoma. Performed feature engineering to create discriminant variables and built statistical models to search for a process with one top quark and one Z boson (tZ), which was never observed before, using a C++–based statistical tool, python, regression and data visualization.

–Applied feature selection, feature engineering to select events of interest using the domain knowledge of Physics, from the order of 1M physics events.
–Trained a bagged Bayesian neural network (BNN) on the Monte Carlo simulated tZ and backgrounds events, and applied this NN on the real collision data.
–Performed maximum likelihood fitting on the NN output to measure the expected signal yields of the tZ process, evaluated the goodness of fit using Kolmogorov–Smirnov (KS) test and used pruning to remove the sources of systematic uncertainty which were negligible in order the keep the fit stable.
–Achieved a significance of 4.2σ using the NN output, from the hypothesis testing based on a likelihood ratio test statistic, compared to 1.3σ only from the traditional simple variable analysis.
–Monitored the complex systems of Inner Detector (ID, IBL, SCT, TRT, PIX systems) for the ATLAS experiment at LHC during the accelerator operation and data collection. 收回

Research And Teaching Assistant

University of Oklahoma
2012 年 8 月 – 2016 年 9 月 · 4 年 2 個月
Norman, Oklahoma, USA

–Trained with C++ and Python programming skills, LaTeX writing, and advanced machine learning techniques applied in particle physics such as Neural Network.
–Worked on the authorship project for the ATLAS collaboration, designing the D* particle reconstruction algorithm for the new software environment and implementing it into a complex C++ software package with Python interfaces.
–Finished the authorship project on time and became one of the authors of the ATLAS collaboration. 收回

教育背景

University of Oklahoma

Doctor of Philosophy – PhD, Elementary Particle Physics
2012 年 – 2018 年

Shandong University

Bachelor's degree, Physics
2007 年 – 2011 年

技能和肯定

SQL

Neural Networks

Python

展開

關注內容

University of Oklahoma
165,067 人關注

山東大學
63,796 人關注

華為
1,955,963 人關注

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行動裝置 小型企業 安全中心

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前往說明中心。

管理帳戶和隱私權。
前往設定

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