Fan Kwok Lung

BSc(4) Year 3, The University of Hong Kong
Double major in Decision Analytics and Physics
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OVERVIEW

Year 3 BSc student major in Decision Analytics and Physics interest in data science and astrophysics.

APPOINTMENTS

Undergraduate Research Assistant 01/2018-02/2018
Department Of Mathematic,The University of Hong Kong

- Implement convex optimization algorithm using C++

Student Teaching Assistant 09/2017-12/2017
Department Of Computer Science,The University of Hong Kong

- Teaching COMP2123 Programming Technologies and Tools
- Course content include:shell script,C++ STL,C and python

Student Intern 07/2017-08/2017
Nishina center for accelerator based science,RIKEN

- Nuclear physics and particle detector

Summer Research Fellow 05/2017-08/2017
Department of Physics,The University of Hong Kong

- CMB polarization and probabilistic catalog
- Supervised by Dr Meng Su

EDUCATION

BSc,major in Decision Analytics and Physics 09/2015-Current
The University of Hong Kong

RESEARCH PROJECT

CMB polarization foreground removal with hydrogen data 01/2017-08/2017
Supervised by Dr Meng Su

Probabilistic catalog of Fermi LAT data 12/2016-Current

Supervised by Dr Meng Su

Classification of Fermi LAT sources with machine learning 09/2017-Current
Supervised by Dr Stephen Ng and Dr Pablo Saz Parkinson (Directed Studies in Physics)

Using machine learning techniques for Gamma/Hadron separation in HAWC 02/2018-Current
Supervised by Dr Pablo Saz Parkinson and Dr Philips Yu

HONOR AND AWARD

Professor C D Beling Memorial Prize in Physics 2016

SKILLS AND LANGUAGES

Languages

- *Native speaker of Cantonese and Mandarin*
- *Fluent in English*

Programming and Software

- *Python(including scientific packages like Numpy,sci-kit learn and keras with tensorflow backend)*
- *C/C++*
- *R(including data visualization packages like ggplot and plotly)*
- *Linux and Shell script(With experience in Grid computing)*
- *Excel(Including Built in statistical function)*
- *Microsoft Offices*
- *LaTeX*

Skills

- *Data mining and machine learning*
- *Physics and mathematical modeling*
- *Statistic*