

# Fan Kwok Lung

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

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## APPOINTMENTS

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### Student Teaching Assistant

09/2018-Current

*Department of Computer Science, The University of Hong Kong*

- Teaching ENGG1330 Computer programming I
- Teaching python programming

### Oversea Research Fellow

05/2018-07/2018

*Department of Physics, University of Maryland, College Park*

- Gamma/Hadron separation in the High-Altitude Water Cherenkov Observatory(HAWC)
- Supervised by Prof. Jordan Goodman

### Undergraduate Research Assistant

01/2018-02/2018

*Department of Mathematics, 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

### 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

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### BSc(Physics and Decision Analytics)

09/2015-Current

*The University of Hong Kong*

## RESEARCH PROJECT

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**XMM-Newton observation on the Fermi Bubbles** 09/2018-Current  
*Supervised by Dr Meng Su*

**Gamma/Hadron separation in HAWC** 02/2018-Current  
*Supervised by Dr Pablo Saz Parkinson and Dr Philips Yu*  
*Supervised by Prof. Jordan Goodman while in UMD(05/2018-07/2018)*

**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)*

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

**Probabilistic catalog of Fermi LAT data** 12/2016-08/2017  
*Supervised by Dr Meng Su*

## HONOR AND AWARD

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**Professor C D Beling Memorial Prize in Physics** 2016

## WORKSHOP,SUMMER SCHOOL AND POSTER

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**Classification and Ranking of Fermi LAT Gamma-ray Sources using Machine Learning Techniques** 10/2018  
*Poster,Eighth International Fermi Symposium*

**Poster Presentation of Undergraduate Research Project** 04/2018  
*Faculty of Science,The University of Hong Kong*

**6th HERD workshop** 03/2018  
*IHEP,Beijing*

**Poster Presentation of Summer Research Fellowship Schemes** 10/2017  
*Faculty of Science,The University of Hong Kong*

**Nishina School** 07/2017-08/2017  
*Nishina center for accelerator-based science,RIKEN*