

# Yingying Wu

## Education

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|---|--|
| •B.S.   | Physics                                  |
| Kuang Yaming Honors School,<br>Nanjing University, China      | Sept 2010-Jul 2014                       |
| •M.Phil.  | Physics                                  |
| The Hong Kong University of Science and Technology, Hong Kong | Advisor: Ning Wang<br>Sept 2014-Aug 2016 |
| •PhD  | Electrical & Computer Engineering        |
| University of California<br>Los Angeles, U.S                  | Advisor: Kang Wang<br>Sept 2016-current  |

## Publications

- [1] Y. Wu, *et al.* Large Exchange Splitting in Monolayer Graphene Magnetized by an Antiferromagnet, *Nature Electronics*, 1-8, 2020. [PDF](#).
- [2] Y. Wu, *et al.* Néel-type Skyrmion in  $\text{WTe}_2/\text{Fe}_3\text{GeTe}_2$  van der Waals heterostructure, *Nature Communications* **11**, 3860, 2020. [PDF](#).
- [3] K. L. Wang, Y. Wu, *et al.* Topological Quantum Materials, *MRS Bulletin*, 45(5), 373-379, 2020. [PDF](#).
- [4] Y. Wu, *et al.* Induced Ising Spin-orbit Interaction in Metallic Thin Films on Monolayer  $\text{WSe}_2$ , *Physical Review B*, **99**, 121406, 2019. [PDF](#).
- [5] Y. Wu, *et al.* Negative Compressibility in Graphene-terminated Black Phosphorus Heterostructures, *Physical Review B*, **93**, 035455, 2016. [PDF](#).
- [6] X. Chen<sup>†</sup>, Y. Wu<sup>†</sup>, *et al.* High-quality Sandwiched Black Phosphorus Heterostructure and its Quantum Oscillations, *Nature communications*, vol. 6, p. 7315, 2015. [PDF](#).
- [7] X. Chen, L. Wang, Y. Wu, *et al.* Probing the Electronic States and Impurity Effects in Black Phosphorus Vertical Heterostructures, *2D Materials*, 3(1), 2015. [PDF](#).

## Research Interest

Quantum Computing, Spintronics and Magnetism, Nanoscale devices

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## Selected Honors

- Department Research Award  
*HKUST*, May 2016
- Best Poster Award  
*MRS meeting*, March 2016
- Top-notch Talent in Fundamental Sciences Award  
*Nanjing University*, 2010-13
- Peoples Scholarship Award  
*Nanjing University*, 2010-13
- 2nd Award at Forum of Sciences and Arts  
*Nanjing University*, 2012

## Academic Engagements

- Undergraduate Lab Exchange Program  
*Duke University*, Oct 2013
- Workshop on Quantum Technology: A new frontier in engineering  
*The University of Chicago Center in Hong Kong*, Mar 2014
- IAS CWB Young Scholars Clubs Seminar  
*HKUST*, May 2015

## Teaching

- Solid State Physics*, TA  
*University of California, Los Angeles*, 2018
- Laboratory for General Physics*, TA  
*Astronomy for Beginners*, TA  
*HKUST*, 2015

## Skills

Mathematica, MATLAB, Python  
LaTeX