

Yingying Wu

Education

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|---|--|
| •B.S. | Physics |
| Kuang Yaming Honors School,
Nanjing University, China | Sept 2010-Jul 2014 |
| •M.Phil. | Physics |
| The Hong Kong University of Science and Technology, Hong Kong | Advisor: Ning Wang
Sept 2014-Aug 2016 |
| •PhD | Electrical & Computer Engineering |
| University of California
Los Angeles, U.S | Advisor: Kang Wang
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 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[†], Y. Wu[†], *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, HTML, Python, Linux, LaTeX