

QIAOCHU WAN

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EDUCATION

SHANGHAITECH UNIVERSITY, Shanghai, China

Jun. 2020

Bachelor of Science, Physics

- GPA: 3.68/4.0 in Physics major (Rank top 10 in Major)
- Scholarship of Academic Excellence (for top 15% of students) for 2 times.
- Language: TOEFL: 100,(Reading 28 Listening 28 Speaking 23 Writing 21); GRE: Verbal Reasoning 146 Quantitative Reasoning 167 Analytical Writing 3.0

UNIVERSITY OF PITTSBURGH, PA, USA

expected Jun. 2025

Doctor of Philosophy, Physics

- GPA: 3.912/4.0 in Physics major
- Scholarship of Graduate Research
- Research focus on optical measurement of exotic state in 2 dimensional heterostructure.

PUBLICATIONS

Nano Letters

Feb.2021

- Sun Z, Beaumariage J, Wan Q, et al. Charged bosons made of fermions in bilayer structures with strong metallic screening[J]. Nano Letters, 2021, 21(18): 7669-7675.

EXPERIENCE

SHANGHAITECH UNIVERSITY, Shanghai, China: Undergraduate

2015 – 2019

UNIVERSITY OF CALIFORNIA, BERKELEY, CA, USA :Exchange

Aug.2019 – Aug. 2020

UNIVERSITY OF PITTSBURGH, PA, USA : PhD Candidate

Aug.2020– Present

Researcher, Prof. Cheng Baile , Assistant Professor ,School of Information Science and Technology Sept. 2017-Jan.2018

- Researched reference papers about local excess noise equation and used Markov Chain Monte Carlo method to simulate the excess noise in APD (Avalanche Photodiode).

Research Assistant, Prof. Yulin Chen & Prof. Prabhakaran, Clarendon Laboratory, University of Oxford, UK July. 2019– Aug.2019

- Trained to use XRD and XRR machine and learn about ARPES and Magnetron sputtering including data analysis
- Synthesized heavy fermion material and Weyl semi metal Mg_3Pr , Mg_3Sm , $CuAgSe$ and other two compounds using different method including Bridgeman and Bi-flux method
- Utilized the XRD and XRR machine to successfully verify the samples we prepared is single crystal

Research Assistant, Prof. FengWang , Department of physics, University of California, Berkeley, USA Aug. 2019– Aug2020

- Measuring the Valley Hall effect in WSe_2/WS_2 hetero-bilayer
- Trained to do mechanical exfoliation and poly ethylene terephthalate

Teaching Assistant, Department of physics, University of Pittsburgh, PA, USA

Aug. 2019– Aug2020

- Assisting the teaching for modern physics experiment courses for undergraduate
- Teaching experiment classes twice a week for 30 undergraduate

ACTIVITIES

SHANGHAITECH UNIVERSITY, Shanghai, China

2016– 2020

MCM, The Mathematical Contest in Modeling, team member

Feb..2018

- Finished the problem A (electronic waves spreading on the sea) with Honorable Mention..(Top 37.97%)