

Zhiyu Liu

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Education

Huazhong University of Science and Technology

Wuhan China

B.E. in Energy and Power Engineering

Exp. June. 2019

- **GPA** 91.2/100 | **Rank** 9/256 | **TOEFL** 103 (R27+L27+S23+W26) | **GRE**:V158+Q169+AW3.0
- Relevant Courses: Calculus(98/100) Fluid <(94/100) Engineering Heat Transfer(93/100)
Thermodynamics(96/100) Physics(99/100) Theoretical Mechanics(100/100) C++Programing design(95/100)

Cambridge University

summer program

July. 27th –Aug. 10th. 2017

Research

iSURE Program in University of Notre Dame

MEMT

Advisor: Prof. Tengfei Luo

Jul. 2018 – Present

- Independently calculate the phonon dispersion and thermal conductivity of 2D materials using QUANTUM ESPRESSO and ShengBTE
- Correct some parameters set by the PhD students and get some interesting findings

Research on the first-principles calculation of thermal conductivity of Si

Nano Heat Group

Advisor: Prof. Nuo Yang

Mar. 2018 – July. 2018

- Independently learn how to use first-principles and phonon transportation equation to calculate the thermal conductivity
- The first one in the group to master the method of using first principle to calculate the thermal conductivity

Research on the thermal conductivity of the Silicon Nanowire Cage

Nano Heat Group

Advisor: Prof. Nuo Yang

Jan. 2018 – June. 2018

- Independently install the quantum espresso software for the graduate students
- Use VASP to calculate the electronic band structure of Silicon-diamond

Research on the electronic property of the Si, Ge, Graphene

Nano Heat Group

Advisor: Prof. Nuo Yang

Sept. 2017 – Dec. 2017

- Learn how to use VASP and BoltzTraP to calculate the electronic band structure and conductivity

Publication

‘Electronic Transport Properties of Silicon Nanowire Cage’

Aug. 2018

The 16th International Heat Transfer Conference, IHTC-16

Shenqiu Mo, Dengke Ma, Lina Yang, Meng An, **Zhiyu Liu**, Nuo Yang,

Honor & Award

- HUST Outstanding Undergraduates in Term of Academic Performance top 3% 2016
- HUST Merit Students Scholarship top 4% 2016,2017
- HUST Outstanding Freshmen top 3% 2016
- HUST Merit student Scholarship of Technical Institute of Physics and Chemistry, CAS 2018

Skill

- C++, Linux, Python,
- VASP, QUANTUM ESPRESSO, ShengBTE, Phonopy, ORIGIN, SOLIDWORKS, INVENTOR