Zhiyu Liu

No.1037 Luoyu Road, Wuhan, China
Mobile: (+86)15927069595 | Email: zhiyu@hust.edu.cn

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 Mechanics(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