Yuan Sui

Bachelor of Science
School of Physics
Peking University, Beijing, China

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Education

- **Peking University** *Aug 2020 - Jul 2024 (Expected)*
  Bachelor of Science in Physics Beijing, China
  – Last year GPA: 92/100
  – Currently major GPA: 86/100

Research Experience

- **Undergraduate Research Projects** *Aug 2022 - Oct 2023 (Expected)*
  Peking University Beijing, China
  – Mentor: Prof. Dr. Jian-Hao Chen
  – Details: This project focuses on in-situ measurement of transport properties of two-dimensional and other novel materials, requiring experimental measurements, data analysis, possible phenomenon interpretation/data simulation combined with condensed matter physics. Now the experiment is progressing well and will completed soon.

Key Courses Taken

- **Physics**: Optoelectronics, Solid State Physics, Seminar for Solid State Physics, Advanced Quantum Mechanics, Electrodynamics, Optics, Seminar for Optics, Statistical Physics, Theoretical Mechanics, Mechanics, Electromagnetism, Modern Physics;
- **Laboratory**: Modern Physics Lab, General Physics Lab;
- **Math**: Equations of Mathematical Physics, Complex Functions, Advanced Algerbra, Methematical Analysis;
- **Programming**: Computational Physics, Data Structure and Algorithm, Introduction to Computation

Technical Skills

- Python, Linux, Mathematica, Comsol (FEA), Origin, LaTex

Interest

- Fabrication and characterization of novel material device, nanotechnology; Transport properties and other properties related to condensed matter physics of materials

Personal Statement

- Currently I am a junior student in Peking University, conducting a research project on the characterization and transport properties of novel materials. Now my research interests are concentrated in condensed matter experiment, material science and nanotechnology, and I have been well prepared during university studies: I have a good ability in physics/mathematics and technical skills by performing well in physics, mathematics, programming and laboratory courses; Through paper research, communication and presentation, data analyzing and experimental operation exercises in undergraduate research and other projects/courses, I believe I have the ability to quickly learn and apply new knowledge. Therefore, I want to improve my ability and develop interest by trying and challenging more research activities in this fields.

Last updated: February 21, 2023