Yuan Sui

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

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https://yuansui.website

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

- Design/Fabrication of novel devices/chips related to semiconductor physics

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 electrical engineering fields especially the design and fabrication of new devices related to semiconductor physics, 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 EE fields.

Last updated: February 16, 2023