Runchen Li

Stony Brook University - 100 Nicolls Road, Stony Brook, NY 11794, USA。

EDUCATION

Stony Brook University & Anhui University   Expected Degree in June. 2025
Bachelor of Science, Physics & Mathematics   Stony Brook, New York, Unite States
GPA: 3.81

SKILLS AND CERTIFICATIONS

- Can use 'Labview' to designed to simulate test, measurement and control applications.
- Can use 'Origin' to analyze, visualize data and draw graphs.
- Can use Sputter to grown thin film.
- Can make 2D crystal material stacks.
- Can use the AFM to scan the surface of the atom.
- Can use the TEN to observe and analyze the nature and behavior of nanoparticles, nanomaterials and nanostructures.
- Can use Muffle furnace to calcined materials.
- Can use 'Python' to do data analysis and algorithms.
- Can use 'keil' to code microcontroller hardware program.
- Can use 'NanoScope Analysis' to visualize data and make graphs.

INTERNSHIP EXPERIENCE

Professor XuDu's research group at StonyBrook University   June. 2023 - Now
S-226, Physics Building, Stony Brook University   Stony Brook, New York
- Stacking two-dimensional materials and graphene in different combinations.
- hBN and graphene in the same orientation to study various physical properties of their moire spots produced under stress.
- Use AFM to scan the surface of the atom.
- Use TEM to observe and analyze the nature and behavior of nanoparticles, nanomaterials and nanostructures.

Prof. Xiaoming Zhang's BOA algorithm research group at Anhui University   November. 2022 - January 2024
College of Physical Sciences, Anhui University   *Heifei, Anhui, China*
- Using Python to Simulate the Distribution of Aquatic Algae Plants.
- Involved in physical analysis and modeling of aquatic algae plants.

Professor Xuegang Chen's research group using Labview to complete the magnetoelectric transport program   November. 2022 - November 2023
Heifei, Anhui, China
- Self-learning Labview software to complete the programming of data acquisition system.

Research project on home external environment analysis system by Professor Lei Zhang of Anhui University   October. *2021 – May 2023*
College of Computer information Science, Anhui University   *Heifei, Anhui, China*
- Microcontroller circuit and sensor circuit design.
- Data reception platform design and hardware detection logic coding.
- Real-world experiments and using Origin to analyze data.
- Setting alarm thresholds and prediction algorithm design.

Professor Xegang Chen's Sputter NCO research group at Anhui University.   *June. 2022 – September. 2022*
Laboratory 115, College of Physics and Optoelectronics, Anhui University   *Hefei, Anhui, China*
- Cutting and cleaning silicon wafers.
- Using Sputter to grow NCO thin film.
- Measurement of film properties using a muffle furnace and magnetoelectric transport device.
- Using Origin and NanoScope Analysisto to analyze Data.

RELEVANT EXPERIENCE

Stony Brook Institute at Anhui University：

Director of academic style construction of the league organization May. 2022- May. 2023

Heifei, Anhui, China

- Use excel sheets to process data and organize learning activities.
- Find resources, contact teachers, arrange academic lectures and various science and
technology innovation and research competitions.

TECHNICAL PROFICIENCY

Language: English (Fluent), Mandarin Chinese (Native)

Software: WPS, Labview, Origin, Matlab, keil, NanoScope Analysis, Pycharm, Adobe Photoshop, Adobe Premiere, Adobe Audition,