Runchen Li

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

EDUCATION

Stony Brook University & Anhui University Bachelor of Science, Physics & Mathematics GPA: 3.75

Expected Degree in June. 2025 Stony Brook, New York, Unite States

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 and Ebeam 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.
- Can use 'Matlab' to analysis the data and make data visualization.
- Can use HTML to build website.

INTERNSHIP EXPERIENCE

Professor XuDu's research group at StonyBrook University

June. 2023 - Now Stony Brook, New York

S-226, Physics Building, Stony Brook University

- 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
- 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

Heifei, Anhui, China

- College of Physical Sciences, Anhui University
- 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 October. 2021 - May 2023 Zhang of Anhui University

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.

Laboratory 115, College of Physics and Optoelectronics, Anhui University

- 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.

June. 2022 – September. 2022 Hefei, Anhui, China

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: Overleaf (LaTex), WPS, Labview, Origin, Matlab, keil, NanoScope Analysis, Pycharm(Python), Adobe Photoshop, Adobe Premiere, Adobe Audition,