

# Lingfeng HUANG

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Date of birth: 09/07/2000, Nationality: Chinese

## Education

**Cranfield University** 01/2024 - Present

**PhD in Manufacturing and Transportation**

**Research: Integrity of power electronics for enhanced electrification**

**University of Southampton** 09/2022 - 09/2023

**MSc in Propulsion and Engine Systems Engineering (Advanced Mechanical Engineering Science)**

**Core Modules:** Advanced Electrical Systems (89), Automotive Propulsion (64), Principles of photovoltaics Fuel Cells and Batteries (72).

**Thesis:** Mechanical performance of polymers and fiber reinforced polymeric composites at cryogenic temperatures

**Grade:** Upper Second Class, 62.5/100

**Nanchang Hangkong University (NCHU)** 09/2018 - 07/2022

**Bachelor in Aircraft Manufacturing**

**Core Modules:** Advanced mathematics (85), Theoretical Mechanics (91), Material Mechanics (90), Engineering Materials and Heating Treatment (85), Mechanical Design (84).

**Thesis:** Design of the Wings of Aircraft Assembly Jigs of An Experimental Teaching Aircraft

**Grade:** 81.294/100

## Patent

- Modified Desk and Cabinet (Utility Model Patent)

## Publications

- Wang, Z, Bailey, W, **Huang, L.**, Song, J., Yang, Y.(2024). Evaluating the potential of thermoplastic polymers for cryogenic sealing applications: strain rate and temperature effects. Submitted to ACS Applied Polymer Materials.
- Wang, Z. Song. .. **Huang, L.**. Bailey, W. Jalalvand. M.(2024). A method to accurately characterize the ultimate strength of carbon fibre, reinforced polymeric composites at cryogenic temperatures. Submitted abstract to 21st European Conference on Composite Materials.

## Practice Experience

**Research Assistant, Cryogenic Lab, University of Southampton** 02/2023 – 09/2023

- Tested composite materials permeability and physical characteristics in room temperature and cryogenic condition, analyzed fracture morphology, researched methods about cryogenic sealing and thermal cycling.

**Electrical and Electronics Trainee, Nanchang Hangkong University** 10/2020

- Trained content about electrical system installation, maintenance, troubleshooting, circuit design and analysis, power system engineering, electronic equipment repair and commissioning.

**Metalworking Trainee, Engineering Training Centre, Nanchang Hangkong University** 08/2019 - 09/2019

- Conducted metalworking practice, and familiarized with over 20 types of work in production, including lathe work, bench workers, CNC milling and 3D printing.

## Extra-Curricular Activities

**Founder | Online Game Studio** 06/2022 - 09/2022

- Established an independent game studio and took responsibility for the operation and management of the studio.

**Leader & Organiser & Coach | Bodybuilding & Fitness Association** **09/2018 - 09/2020**

- Taught fitness knowledge to other members and guided them to the key point of movements. Organised various activities and competitions, including Bench Press Competition.

**Student | University of Nottingham Summer School** **08/2019 - 09/2019**

- Attended the language courses, experienced the relaxing learning environment, and visited the famous universities, museums and attractions in the UK.

**Member | Reception Team of School of Aeronautical Manufacturing Engineering** **09/2018 - 09/2019**

- Became familiarised with the process and requirements of the reception, made adequate preparations, and conducted rehearsals with other members to finish every task, including New Star Show and Variety Competition. Participated in the variety show as a participant.

**Member | Science and Technology Innovation Centre of Student Union** **09/2018 - 09/2019**

- In charge of organising science and technology competitions and activities like the Water Rocket Contest. Responsible for writing the planning plan and publicising the small invention activities.

## **Honours & Certificates**

- Merit Student in 2022, 2021, and 2019
- Third-Class Scholarship of NCHU in 2021
- Third-Class Prize of the Feiying Cup Aircraft Model Competition of NCHU in 2021
- Second-Class Prize of the Aeroengine Design Competition in 2021
- Second-Class Prize of the Angel Wings Badminton Recycling Activity in 2020
- Third-Class Prize of the Qihang Cup Electric Paper Aircraft Competition of NCHU in 2020
- Second-Class Prize of the Collegiate Innovation Competition of Creative Ideas of NCHU in 2020
- Second Place in the Jiangxi Kaifute Cup Bodybuilding & Fitness Competition (80kg College Group) in 2020
- Second-Class Scholarship of NCHU in 2020
- Fifth Place in the Bench Press Competition in 2019
- Third-Class Prize of the Water Rocket Championship Contest (Funny Competition) of NCHU in 2019
- Self-invented Product: Portable and Moistureproof Umbrella in 2019
- CBBA Professional Fineness Coach Certificate in 2018
- The Certification of Sports Nutritionist in 2018
- Training and Certification of Sports Nutrition Skills in 2018
- The Certification of Physical Fitness Training in 2018
- Certificate for Red Cross First Aider in 2018
- Third Place in the Class Flag and Class Badge Design Competition in 2018
- Third Place in the Xinsheng Cup Basketball Match of the School of Aeronautical Manufacturing Engineering in 2018
- Third-Class Prize of the Water Rocket Championship Contest of the School of Aeronautical Manufacturing Engineering in 2018
- Third Place in the Debate Competition in the School of Aeronautical Manufacturing Engineering in 2018
- Excellent Student in Military Training in 2018
- Fourth Place of 50m Freestyle Swimming of Sports Meeting in 2017

## **Skills & Hobbies**

**Language Skills:** Chinese (native) & English (fluent)

**Computing Skills:** Programming language (C, Python, Visual basic, Assembly language), MATLAB, Simulink, Catia, SolidWorks, Abaqus, CAD, Microsoft Office (PowerPoint, Word, Excel), Web design

**Hobbies:** Bodybuilding, swimming, playing basketball and cycling