

# YANGLANG YUAN

1088 Xueyuan Avenue, Shenzhen 518055, P.R. China

✉ 11930509@mail.sustech.edu.cn

🌐 yuanyl.eu.org

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## EDUCATION

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**Southern University of Science and Technology**

M.Sc. in Electronic Science and Technology

Sept. 2021 - June 2024 (Expected)

Shenzhen, China

**Southern University of Science and Technology**

B.Eng. in Mechanical Engineering

Sept. 2015 - June 2019

Shenzhen, China

## PUBLICATIONS & PATENTS

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### Journal Papers

- Shiquan Ling, **Yanglang Yuan**, Danqi Yan, Yuquan Leng, Yiming Rong, George Q. Huang. (2022). "RHYTHMS: Real-time Data-driven Human-machine Synchronization for Proactive Ergonomic Risks Mitigation in the Context of Industry 4.0 and Beyond", *SSRN Electronic Journal*. doi: 10.2139/ssrn.4153658.
- **Yanglang Yuan**, Daqiang Guo, Shiquan Ling, Jingke Wang, Guyue Zhou, Yiming Rong, Yongsheng Ma. (2023). "A framework for Customer-to-Manufacturer (C2M) in the context of Industry 5.0" (*Under Review*)

### Conference

- **Yanglang Yuan**, Jingke Wang, Kangtang, Guyue Zhou, Yiming Rong, Yongsheng Ma. (2023). "A framework and implementation of Customer-to-Manufacturer (C2M) paradigm in e-Commerce" (*NSFC-RGC Conference 2023, Hong Kong*)

### Patents

- **Yanglang Yuan**, Jiahui Zhang, Xiaoyu Zhang, Fan Zhou, Yajun Wang, Hui Li, Haijiang Wang. Fuel cell bipolar plate and fuel cell: CN, 110459780A[P]. 2019-11-05.
- **Yanglang Yuan**, Jiahui Zhang, Xiaoyu Zhang, Fan Zhou, Yajun Wang, Hui Li, Haijiang Wang. Fuel cell bipolar plate and fuel cell: CN, 210429963U[P]. 2019-07-25.

## RESEARCH EXPERIENCES

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**Intelligent Manufacturing Lab at SUSTech**

Advisor: Prof. Yiming (Kevin) Rong, Prof. Yongsheng Ma

July 2021 - Present

Shenzhen, China

- **Researching for Customer-to-Manufacturer(C2M)**

Data-driven intelligent manufacturing systems;

C2M manufacturing system model with universality and completeness;

3D printing sneakers based on C2M scene.

**Shenzhen Key Laboratory of Hydrogen Energy**

Advisor: Prof. Haijiang Wang

June 2017 - June 2019

Shenzhen, China

- **A Bipolar Plate Design for Fuel Cell**

Mechanical structure design of a novel bipolar plate for fuel cell unmanned aerial vehicle (UAV);

Simulated in SolidWorks and COMSOL for the static and dynamic analysis.

- **A Controlling System for Fuel Cell**

Designed the control logic and methods & controller of the fuel cell system;

Designed the temperature and voltage patrol detection system of Fuel Cell.

Thesis topic: Controlling System of the fuel cell in the UAV

**Seoul National University - SUSTech Research Program**

Dec. 2017 - Jan. 2018

*Advisor: Prof. Keyang Tang**Shenzhen, China***· International Winter Undergraduate Research Experience**

Worked in mixed teams with Seoul National University students to complete specific research tasks;  
Analysis of the development of the intelligent manufacturing industry.

**Robotics and Autonomy Lab at Tsinghua University**

June 2017 - Aug. 2017

*Advisor: Prof. Chenglong Fu**Beijing, China***· Summer Undergraduate Research Project**

Participated in the design and manufacturing of a robot Bluetooth communication controller;  
Other advanced knowledge in Robotics.

**Formula Student Electric China Program**

2016 - 2017

*Advisor: Prof. Yiming (Kevin) Rong**Shenzhen, China***· The Controlling System of Electric Racing**

Jan. 2017 - Aug. 2017

In charge of the electronic part of the racing car; Designed the control logic and methods of electric racing;  
BUILT the Battery Management System(BMS) of electric racing.

**TEACHING EXPERIENCE**

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**Advanced Manufacturing Systems**

Feb. 2022 - June 2022

*Teaching Assistant**Shenzhen, China*

- Responsible for introducing computer-aided design (CAD), computer-aided manufacturing (CAM), process control, quality control, etc.

**Awareness Practices of Manufacturing Engineering**

Sept. 2021 - Jan. 2022

*Teaching Assistant**Shenzhen, China*

- Responsible for preparation of equipment, data analysis, and presentation of results and conclusions of the students' course projects.

**SKILLS**

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**Programming**

Proficient: MATLAB, Plant Simulation; Intermediate: C/C++, Java

**Technical Tools**

Solidworks, AutoCAD, CNC, Altium Designer, LaTeX, Markdown, etc.

**Language**

Chinese, Cantonese, English (IELTS 6.5)

**HONORS & AWARDS**

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Outstanding Postgraduate Student, SUSTech

2022 - 2023

Excellent Postgraduate Teaching Assistant, SUSTech

2021 - 2022

Employee of the Year, SUSTech

2021

Outstanding Graduation Thesis, SUSTech

2019

Honorary Graduate of Zhicheng Residential College, SUSTech

2019

Self-improvement Star of Zhicheng Residential College, SUSTech

2019

National Encouragement Scholarship, China

2018

Outstanding Leadership of Zhicheng Residential College, SUSTech

2016 - 2018

Winning Award of Formula Student Electric China

2017

**REFEREES**

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Prof. Yiming Rong, Southern University of Science and Technology, rongym@sustech.edu.cn

Prof. Yongsheng Ma, Southern University of Science and Technology, mays@sustech.edu.cn