

YANGLANG YUAN

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EDUCATION

RWTH-Aachen University PhD in Mechanical Engineering	July 2025 - Present Aachen, Germany
Aalto University PhD in Mechanical Engineering	July 2024 - June 2025 Helsinki, Finland
Southern University of Science and Technology M.Sc. in Electronic Science and Technology	Sept. 2021 - June 2024 Shenzhen, China
Southern University of Science and Technology B.Eng. in Mechanical Engineering	Sept. 2015 - June 2019 Shenzhen, China

PUBLICATIONS & PATENTS

Journal Papers

- **Yanglang Yuan**, Jingke Wang, Guyue Zhou, Yiming Rong, Yongsheng Ma. (2024). “A framework and implementation of the Customer-to-Manufacturer (C2M) paradigm”, *Advanced Manufacturing*. doi: 10.55092/am20240004
- 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”, *Robotics and Computer-Integrated Manufacturing*. doi: 10.1016/j.rcim.2023.102709

Conference

- **Yanglang Yuan**, Jingke Wang, Kang Tang, 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*)
- J Wang, **Y Yuan**, Y Ma. ”Research on Intelligent Fitting Based on Parametric Human Modeling and 3D Garment Simulation” *2024 5th International Conference on Big Data, Artificial Intelligence and Internet of Things (ICBAIE 2024)*, Shenzhen, China

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

Institute of Metal Forming at RWTH-Aachen <i>Advisor: Prof. Junhe Lian</i>	July 2025 - Present Aachen, Germany
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- Machine Learning for material behavior prediction (in cross-scale);

The Materials to Products Research group at Aalto <i>Advisor: Prof. Junhe Lian</i>	July 2024 - Dec. 2025 Helsinki, Finland
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- Machine Learning for structure-property relation prediction.

Intelligent Manufacturing Lab at SUSTech*Advisor: Prof. Yiming (Kevin) Rong, Prof. Yongsheng Ma*

July 2021 - July 2024

Shenzhen, China

- Data-driven intelligent manufacturing systems;
- Research of Customer-to-Manufacturer(C2M);
- C2M manufacturing system model with universality and completeness;

Shenzhen Key Laboratory of Hydrogen Energy (SUSTech)*Advisor: Prof. Haijiang Wang*

June 2017 - June 2019

Shenzhen, China

- Controlling System of the fuel cell in the UAV;
- Mechanical structure design of a novel bipolar plate for fuel cell unmanned aerial vehicles (UAV);
- Thesis topic: Controlling System of the fuel cell for the UAV.

TEACHING EXPERIENCE

Computational Engineering Project, Lecture*Teaching Assistant*

Sept. 2024 - Jan. 2025

Helsinki, Finland

- Responsible for the arrangement of course seminars, presentations, tutorial materials, etc.

Advanced Manufacturing Systems*Teaching Assistant*

Feb. 2022 - June 2022

Shenzhen, China

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

Awareness Practices of Manufacturing Engineering*Teaching Assistant*

Sept. 2021 - Jan. 2022

Shenzhen, China

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

SKILLS

Programming

Proficient: MATLAB, DAMSK; Intermediate: C/C++, Python, Java

Technical Tools

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

Language

Chinese, Cantonese, English

HONORS & AWARDS

Excellent Graduate with a Postgraduate Degree, SUSTech

2024

Award of Outstanding Morality, SUSTech

2024

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

Outstanding Student Representative of Student Congress, SUSTech

2017

Third-Class SUSTech Scholarship for Outstanding Student

2015-2017