YANGLANG YUAN

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Ü Updated: July. 2025

EDUCATION

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

Advisor: Prof. Junhe Lian

July 2025 - Present Aachen, Germany

· Machine Learning for material behavior prediction (in cross-scale);

The Materials to Products Research group at Aalto

Advisor: Prof. Junhe Lian

July 2024 - Dec. 2025 *Helsinki*, *Finland*

· 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)

June 2017 - June 2019

Shenzhen, China

Advisor: Prof. Haijiang Wang

· 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

Sept. 2024 - Jan. 2025

Helsinki, Finland

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

Advanced Manufacturing Systems

Feb. 2022 - June 2022

Teaching Assistant

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

Programming		
Technical Tools		
Language		

Proficient: MATLAB, DAMSK; Intermediate: C/C++, Python, Java Solidworks, AutoCAD, CNC, Altium Designer, LaTeX, Markdown, etc.

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