

Yanqi FENG

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EDUCATION

<u>Xi'an Jiaotong University (XJTU), Xi'an, CN</u>	Sept2022-Present
➤ Marking & Ranking for Postgraduate Recommendation: 98.68, #1/195	
➤ BA in Automation (XJTU Academic Elite Program) , XJTU-AEP)	
■ Academic Supervisor: Deqiang HAN , Professor, School of Automation Science and Engineering	
■ XJTU-AEP is patronized by our generous alumni couple Zhongjie PU and Yue'e ZHANG in the hope of cultivating talented future leaders by full-funding scholarships & interaction with outstanding alumni entrepreneurs, researchers, policymakers.	

HONOURS AND AWARDS

<u>XJTU-AEP Scholarship</u>	Sept2022-Present
<u>National Scholarship (Top 0.2% nationwide)</u>	2023-2024
<u>Outstanding Student Award</u>	2022-2023, 2023-2024

COMPETITIONS

<u>2024 Mathematical Contest In Modeling (MCM)</u>	Feb2024
Advisor: Long CHEN , School of Computer Science and Technology, XJTU	Team Leader
➤ Finalist Award (Top 2% globally)	
➤ Established the position prediction model for a wrecked submersible in a complex deep-sea environment and then proposed a two-stage search strategy combined with the A* algorithm	
➤ Responsibilities: Paper writing (LaTeX), figure design, modeling support, team coordination, timeline management	
➤ The search algorithm was further optimized after the competition, and the paper "A Two-Stage Search Algorithm for Static Target in A 2D Unknown Complex Environment" written as the first author has been accepted by ACTCE 2025.	

<u>2024 RoboCup China Open</u>	Nov2024
Advisor: Ling GUO、Qiang CHEN , School of Aerospace Engineering, XJTU	Embedded Development
➤ 2nd Prize , Automatic Sorting Robot (Intelligent Delivery Category)	
➤ Able to realize the sorting and delivery of balls with different colors	
➤ Responsibilities: designed motion control and communication logic for an STM32F103ZET6-based smart mail-sorting vehicle.	

Other Awards

➤ Silver Prize , China International College Students' Innovation Competition (Shaanxi Division)	Sept2024
➤ 2nd Prize , National College Mathematics Competition (Non-Math, Shaanxi Division)	Dec2023
➤ 6 university-level awards	

RESEARCH EXPERIENCE

<u>Deadlock control and scheduling algorithm for two-stage assembly no-wait permutation flowshop with limited buffers</u>	Feb2024-Present
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Advisor: **Yanxiang FENG**, Associate Professor, School of Automation Science and Engineering, XJTU

- Enhanced Discrete Particle Swarm Optimization (DPSO) by integrating Q-learning for dynamic evolution strategy selection
- Proposed a two-stage local search (VND+IG) to escape local optima
- Outcome: Outperformed HSSA, HGA, and ABC algorithms in testing

Extended Kalman Filter (EKF) Algorithm Based on 9-Axis IMU & Hydrostatic Pressure Sensor Aug2025

Advisor: **Jianping HE**, Professor, School of Automation and Intelligent Sensing, SJTU

- Optimized attitude estimation algorithms for underwater robots using the IWIN-FINS laboratory platform
- Developed an EKF model fusing 9-axis IMU and hydrostatic pressure data and implemented embedded code
- Achieved better stability compared to IMU-only Mahony algorithm in experiments.

Design & Development of an AI-Powered Oilfield Terminal

Apr2024-Apr2025

Advisor: **Cuicui ZHANG**, Faculty of Electronic and Information Engineering, XJTU

- 2024 National Undergraduate Training Program for Innovation
- Introduced the ResNet model to automatically classify abnormal oil well indicator diagrams, and deployed the deep learning algorithm to a lightweight embedded device to create a smart terminal
- Contributions: built the dataset for abnormal oil well indicator diagrams

LEADERSHIP & ACTIVATES

Vice President, Intelligent Aircraft Innovation Club

May2024-Present

- Lead recruitment, technical training, and competition preparation
- Redesigned team formation model post-competition reform and doubled expected participation for 2025 compared to 2024

SKILLS

Languages	CET-4 613/CET-6 547
Programming	C, MATLAB, Python
Tools	LaTex, Visio, Keil, Multisim, Proteus