



JIACHENG DONG



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EDUCATION

University of Technology, Sydney (UTS) (Dual-Degree) Aug 2024- Present
B.S in Software Engineering (Honours) | GPA: 90.9/100
Northeastern University, China (NEU) Sep 2022 - Present
B.S in Computer Science | GPA: 88.1/100

HONORS AND AWARDS

- **Dean's List** – UTS (2025)
- **First Prize**, Full Scholarship - HACI LAB (2023-2024)
- **National Third Prize** – 23rd National RoboMaster Super Combat (2024)

PATENTS

- **Multi-Event, Multi-Task Emotion State Evaluation** — CN App. 202510123241.3; grant notice 2025-10-28.
- **Real-Time Multi-Modal Mental-Health Analysis (AI-based)** — CN App. 202411150269.8; grant notice 2025-10-28.
- **LLM-Based Traditional Chinese Medicine Diagnostic System** — CN App. 202411150279.1; grant notice 2025-12-16.

PUBLICATIONS

1. PPHA: Pre-Post Hidden Alignment for Multi-Task Speech Model Distillation with Rapid Convergence **ICASSP 2026 (Under Review)**
Jiacheng Dong, Changzeng Fu, Jiadong Wang
2. FilterRec: An Intent-Aware Framework for Dynamic Filter Recommendation [[Link](#)] **WWW 2026**
Dingxian Wang, Jiacheng Dong, et al.
3. The First MPDD Challenge: Multimodal Personality-aware Depression Detection [[Link](#)] **ACM MM 2025**
Changzeng Fu, Zelin Fu, Xinhe Kuang, Jiacheng Dong, et al.

PROJECT EXPERIENCE

X-Lab — Shanghai AgiBot Innovation Technology Co., Ltd. Dec 2025 - Present

- Build and refactor an end-to-end, four-stage decoupled motion retargeting pipeline, and validate Sim2Sim and Sim2Real transfer on the AGIBOT X2 humanoid robot.

Tech: Motion Retargeting, Video Retargeting, Imitation Learning

Robotics Institute — University of Technology Sydney Aug 2025 - Present

- Built Isaac Sim environments mirroring Unitree Go2 sensors and trained DRL navigation & obstacle-avoidance policies and sim-to-real evaluation.

Tech: Isaac Sim, Isaac Lab, ROS2, Reinforcement Learning

Upwork — University of Technology Sydney May 2025 - Dec 2025

- Designed an LLM fine-tuning workflow from user search trails to predict next filtering actions and improve recommendation relevance.

Tech: Python, PyTorch, Docker, Airflow, PostgreSQL

HACI Lab — Northeastern University, China Jan 2024 - Jul 2025

- Lead multiple HRI and affective computing projects, resulting in three patents.
- Build the MPDD @ ACM MM 2025 competition website and implement the evaluation pipeline.

Tech: FastAPI, React/TypeScript, Nginx, Full-Stack Development

RoboMaster Lab — Northeastern University, China Sep 2023 - Jun 2024

- Deployed YOLOv5 detector on NVIDIA Orin with high-FPS tracking for real-time targeting.
- Mecanum Robot: Integrated embedded modules; enabled host-device communication.

Tech: C++, ROS, Jetson/Orin, CUDA, YOLOv5