JIACHENG DONG

UTS
UNIVERSITY OF TECHNOLOGY SYDNEY

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EDUCATION

University of Technology, Sydney (UTS) (Dual-Degree) Aug 2024- Present
B.S in Software Engineering (Honours) | GPA: 90.3/100

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)
- **Reviewer** for AAAI, ACM MM, and BESC

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.

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. The First MPDD Challenge: Multimodal Personality-aware Depression Detection [⊕Link] **ACM MM 2025**
   Changzeng Fu, Zelin Fu, Xinhe Kuang, **Jiacheng Dong**, et al.

3. HGF-MiLaG: Hierarchical Graph Fusion for Emotion Recognition in Conversation with Mid-Late Gender-Aware Strategy [⊕Link] [▤ Code] **Sensors**
   Y Wang, R Hao, Z Li, X Kuang, **J Dong**, et al.

PROJECT EXPERIENCE

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

Upwork @ UTS — LLM Engineer 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
- Multimodal Emotion Analysis for HRI: real-time EEG–image–audio ingestion, fusion, and inference; full-stack web app for data collection, annotation, and visualization.
- MPDD @ ACM MM 2025: built the competition website and backend; implemented evaluation pipeline, ranking logic, and participant scoring/leaderboard.
  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