# DONG YUNAO

Hong Kong University of Science and Technology
+852 5734 9207 |+86 15811339573 | ydongbd@connect.ust.hk | 640987171@qq.com


## EDUCATION

**Hong Kong University of Science and Technology (HKUST)** Hong Kong 09/2023-present
*Double Major in Computer Science & Data Science and Technology*

- Overall GPA: **3.95**/4.3(Top 3%), MCGA: **4.1**/4.3
- Research Interest: **3D Vision (Reconstruction, Generation, Segmentation)**
- Coding Skills: Proficient in Python/R, familiar with C++; Latex
- English Proficiency: IELTS 7.5
- Related Courses: Calculus II(A+), Intro to Optimization (A), OOP & Data Structures (A+),
  Honors Discrete Math(A+), Multi-variable Calculus (A+), Computer Organization (A+)
  Honors Linear & Abstract Algebra (A-), Probability (A+)
  Honors Design & Analysis of Algorithms (A), Applied Statistics (A)
  Machine Learning (A), Matrix Computation (A), Exploring Artificial Intelligence (A+)

- Awards and Honors: University's Scholarship Scheme for Continuing Undergraduate Students (Top 5%) 2024, 2025
  Dean's List Honor (twice) (GPA over 3.7) 2023, 2024

**University of Texas at Austin,** United States 08/2025-12/2025
*Exchange Program in Computer Science Dept.*

- Overall GPA: **4.0**/4.0
- Related Course: Computer Vision (A) , Software Engineering (A), Operating System (A), Data Management (A)

## RESEARCH

**3D HOI generation from in the wild images** 01/2026-present
*Research Assistant, Supervised by Professor Chi-Keung Tang, Dept of CSE, HKUST*

- Plan to Develop an end-to-end pipeline for reconstructing 3D human and object meshes from single in-the-wild image.
- Developed a novel human-object alignment algorithm to enhance the geometric accuracy and contact plausibility of the reconstructed meshes.

**Human Body Mesh and Skeleton Mesh Reconstruction from Video** 11/2025-present
*Research Assistant, Supervised by Prof Georgios Pavlakos, Dept of CS, UT Austin*

- Plan to developed a novel video-based reconstruction pipeline for human body and skeleton meshes, bridging the gap where previous methods are only able to process single image data.
- Mastered state-of-the-art models for human skeleton reconstruction, such as SMPL and SKEL
- Conducted large-scale dataset conversion from SMPL representations to SKEL formats.

**Animation I2V Benchmark**
*Research Assistant, Supervised by Prof. Qifeng Chen, Dept. of CSE, HKUST* 07/2025-12/2025

- Bridged the gap in existing cartoon datasets by introducing metrics for user preference assessment
- Constructed and utilized ComfyUI workflows to conduct the performance evaluation of advanced Text-to-Video (T2V) and Image-to-Video (I2V) models.
- Designed diverse characters for a cartoon video benchmark to enhance the comprehensiveness of its evaluation metrics.

**Optimize the Capability of Vision-Language Models in Tackling Hybrid Image-text Inputs** 06/2025-08/2025
*Research Assistant, Supervised by Prof. James Cheng, Dept. of CSE, CUHK*

- Designed a new architecture to refine current VQA model performance on multimodal image-text problems.
- Upgraded existing retrieval model to multimodal version using visual-text alignment architecture like CLIP.
- Evaluated the new model's performance on state-of-the-art benchmarks including MRAG-BENCH.
- Designed and validated a novel benchmark for Multimodal query VQA tasks.
- Gained hands-on experience in designing and optimizing architectures of models; Deepened understanding of the technical mechanisms underlying multimodal information processing in LVLMs

## INTERNSHIP

**International Dispute Resolution and Risk Management Institute** | *Data Analyst Intern* 06/2024-07/2024

- Developed an algorithmic framework to evaluate curriculum modification strategies based on multi-course learner feedback.
- Conducted analysis of structured data in commercial dispute resolution scenarios.