

JUNTING CHEN

Queenstown, Singapore

🏠 [Home page](#)

✉ sgt79911030@gmail.com

🌐 [Junting Chen](#)

EDUCATION

Ph.D. in Computer Science, President's Graduate Fellowship

August 2024 – Present

National University of Singapore

Singapore

M.Sc. in Robotics, systems, and Control

September 2020 – December 2023

ETH Zurich

Zurich, Switzerland

B.E. in Computer Science and Technology

September 2015 – July 2019

University of Chinese Academy of Sciences

Beijing, China

SKILLS

- Robotics
- Visual Navigation
- LLM/VLM Training
- Reinforcement Learning
- Embodied AI
- Arm Manipulation
- LLM Agents
- Simulation Development

WORK EXPERIENCE

Student Researcher

Nov. 2025 – Current

Seed Robotics, Bytendance

Beijing, China

Intern Computer Vision Researcher

Jul. 2023 – Jul. 2024

Shanghai AI Laboratory

Shanghai, China

Intern Perception Engineer

Jan. 2023 – June. 2023

ANYbotics AG

Zurich, Switzerland

Core Publications

- [1] **Chen, Junting**, G. Li, S. Kumar, B. Ghanem, and F. Yu. “How To Not Train Your Dragon: Training-free Embodied Object Goal Navigation with Semantic Frontiers”. In: *Proceedings of Robotics: Science and Systems(RSS)*. 2023. DOI: 10.15607/RSS.2023.XIX.075.
- [2] Y. Mu, **Chen, Junting**, Q.-L. Zhang, S. Chen, Q. Yu, C. Ge, R. Chen, Z. Liang, M. Hu, C. Tao, et al. “RoboCodeX: Multimodal Code Generation for Robotic Behavior Synthesis”. In: *International Conference on Machine Learning(ICML)*. PMLR. 2024, pp. 36434–36454.
- [3] **Chen, Junting**, C. Yu, X. Zhou, T. Xu, Y. Mu, M. Hu, W. Shao, Y. Wang, G. Li, and L. Shao. “EMOS: Embodiment-aware Heterogeneous Multi-robot Operating System with LLM Agents”. In: *The Thirteenth International Conference on Learning Representations(ICLR)*. 2025.
- [4] **Chen, Junting**, H. Liang, L. Du, W. Wang, M. Hu, Y. Mu, W. Wang, J. Dai, P. Luo, W. Shao, and L. Shao. “OWMM-Agent: Open World Mobile Manipulation With Multi-modal Agentic Data Synthesis”. In: *Advances in Neural Information Processing Systems(NeurIPS)*. 2025.
- [5] **Junting Chen**, Y. Li, P. Jiang, J. Du, Z. Chen, C. Tie, J. Deng, and L. Shao. *LISN: Language-Instructed Social Navigation with VLM-based Controller Modulating*. 2025. arXiv: 2512.09920 [cs.R0].

Other Publications

- [6] P. Wu, Y. Mu, K. Zhou, J. Ma, **Chen, Junting**, and C. Liu. “Camon: Cooperative agents for multi-object navigation with llm-based conversations”. In: *arXiv preprint arXiv:2407.00632* (2024).
- [7] C. Tie, S. Sun, J. Zhu, Y. Liu, J. Guo, Y. Hu, H. Chen, **Chen, Junting**, R. Wu, and L. Shao. “Manual2skill: Learning to Read Manuals and Acquire Robotic Skills for Furniture Assembly Using Vision-Language Models”. In: *Robotics: Science and Systems(RSS)*. 2025.
- [8] Q. Yu, X. Yuan, Y. Jiang, **Junting Chen**, D. Zheng, C. Hao, Y. You, Y. Chen, Y. Mu, L. Liu, and C. Lu. “ArtGS: 3D Gaussian Splatting for Interactive Visual-Physical Modeling and Manipulation of Articulated Objects”. In: *Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*. 2025.