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| Zhexi Luo  [Personal Page](https://zhexiluo.github.io/) [zhexiluo2026@outlook.com](mailto:zhexiluo2026@outlook.com) WeChat: ZhexiLuo  Education   |  | | --- | | Sun Yat-sen University (#8 in China, US News Ranking 2025)  09/2022 - Current  *Bachelor* *of* *Engineering,* *anticipated* *graduation* *in* *June* *2026*  Major: Computer Science and Technology  Cumulative GPA: 3.6/4.0  Course Grades: Advanced Mathematics: 94, Linear Algebra: 93, Probability Theory: 92, Principles of Computer Organization:  90, Operating Systems: 95, Artificial Intelligence: 94  Main Research Interests | | Robot Learning, Dexterous Grasping and Manipulation, and unlocking the capabilities of foundation models in robotic systems.  Publications | | OmniDexGrasp: Generalizable Dexterous Grasping via Foundation Model and Force Feedback  Yi-Lin Wei\*, Zhexi Luo\*, Yuhao Lin, Mu Lin, Zhizhao Liang, Shuoyu Chen, Wei-Shi Zheng  *Submitted* *to* *IEEE* *International* *Conference* *on* *Robotics* *and* *Automation* *(ICRA),* *2025* *(\** *indicates* *equal* *contribution)*  DriftTrace: Combating Concept Drift in Security Applications through Detection and Explanation  Yuedong Pan, Lixin Zhao, Tao Leng, Zhexi Luo, Lijun Cai, Aimin Yu, Dan Meng  *Submitted* *to* *IEEE* *Transactions* *on* *Information* *Forensics* *and* *Security* *(T-IFS),* *2025*  Research Experience | | OmniDexGrasp: Generalizable Dexterous Grasping via Foundation Model and Force Feedback  04/2025 - 09/2025  Intelligence Science and System Lab (ISEE), Sun Yat-sen University, Guangzhou, China  Proposed OmniDexGrasp, a generalizable dexterous grasping framework that leverages foundation models to achieve omni-capabilities across diverse user prompts, dexterous embodiments, and grasping tasks.  Implemented a human-image-to-robot-action transfer pipeline with force-aware control, enabling robust and safe execution on physical robots and outperforming state-of-the-art methods.  DriftTrace: Combating Concept Drift in Security Applications through Detection and Explanation  10/2024 - 02/2025  Institute of Information Engineering, Chinese Academy of Sciences, Beijing, China  Developed DriftTrace, an innovative system to detect, explain, and adapt to concept drift in cybersecurity applications by identifying data distribution deviations at the individual sample level, reducing the need for large annotated datasets.  Smoke Removal in Laparoscopic Surgical Videos  04/2024 - 09/2024  Computational Medical Imaging Lab, Sun Yat-sen University, Guangzhou, China  Developed a smoke removal model for laparoscopic surgery videos, leveraging spatiotemporal information from smoke- free frames to generate high-quality clear images from unpaired video data and enhance surgical visibility.  Internship Experience | | Algorithm Intern  09/2024 - 12/2024  Zhongshi Technology, Guangzhou, China  Fine-tuned an OCR model on an 8-core V100 GPU using a large-scale business dataset (>250,000 images), implementing end-to-end text recognition and key information extraction to improve accuracy by 8%.  Awards and Achievements |   First Prize  China Undergraduate Mathematical Contest in Modeling, 2023 |