Haomin Wang

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| G Google Scholar

Ph.D. Student in Artificial Intelligence, focusing on Multimodal LLMs & SVG Generation.

🎓 Education

Shanghai Jiao Tong University   Sep. 2025 – Present
Ph.D. in School of Artificial Intelligence   *Shanghai, China*

Nanjing University   Sep. 2021 – Jun. 2025
B.Eng. in Software Engineering   *Nanjing, China*
GPA: 4.579/5.00 | **Rank**: 9/254 (Top 3.54%) | **English**: CET-4 636, CET-6 578

💼 Research Experience

Shanghai AI Laboratory   Jul. 2024 – Present
Research Intern, Large Language Model Center   *Shanghai, China*

📖 Publications

- **[Under Review] InternSVG: Towards Unified SVG Tasks with Multimodal Large Language Models**
  First Author

  › Proposed a unified modeling framework for SVG understanding, editing, and generation tasks driven by MLLMs.
  › Constructed **SAgoge**, the largest multimodal SVG training dataset to date (16M samples), and introduced the **SArena** benchmark for comprehensive evaluation.
  › Achieved state-of-the-art performance via SVG-specific tokens and subword-based embedding initialization, resulting in the **InternSVG** framework.

- **[NeurIPS 2025] Point or Line? Using Line-based Representation for Panoptic Symbol Spotting in CAD Drawings**
  Co-first Author

  › Proposed **VecFormer**, a Transformer-based framework replacing point-based primitives with line segments to preserve geometric continuity in CAD drawings.
  › Achieved new SOTA on FloorPlanCAD benchmark with **91.1 PQ**, outperforming previous methods by significant margins (9.6 – 21.2 PQ).

- **[NeurIPS 2025] ArchCAD-400K: A Large-Scale CAD Drawings Dataset and New Baseline for Panoptic Symbol Spotting**

- **[Under Review] InternSpatial: A Comprehensive Dataset for Spatial Reasoning in Vision–Language Models**

- **[Technical Report] InternVL3.5: Advancing Open-Source Multimodal Models in Versatility, Reasoning, and Efficiency**

- **[Technical Report] InternVL3: Exploring Advanced Training and Test-Time Recipes for Open-Source Multimodal Models**

🏆 Honors & Awards

- **Outstanding Graduate Award**, Nanjing University   2025
- **Outstanding Student Award**, Nanjing University   2023
- **China Merchants Bank Scholarship**, Nanjing University   2022 – 2023
- **Ruli Scholarship**, Nanjing University   2021 – 2022