

Yichen Shi

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SUMMARY

PhD student in Electronic Information and Electrical Engineering at Shanghai Jiao Tong University, specializing in AI (LLM) for EDA, multimodal reasoning, and biometric security. Experienced in building datasets, benchmarks, and applied machine learning systems through research and industry internships. Seeking research or engineering roles in AI, multimodal systems, EDA intelligence, or applied machine learning.

EDUCATION

- **Shanghai Jiao Tong University** — Ph.D. in Electronic Information and Electrical Engineering, expected 2027
- **Shijiazhuang Tiedao University** — M.S. in Computer Science, 2023
- **Shijiazhuang Tiedao University** — B.S. in Computer Science, 2020

EXPERIENCE

Algorithm Intern — Shukun Technology | Sep 2023 – Jun 2024

- Worked on Segment Anything Model (SAM) and multimodal large language models for applied vision tasks.
- Explored multimodal perception pipelines for practical AI applications.

Algorithm Intern — Ping An Technology | Jun 2023 – Sep 2023

- Conducted research on multimodal learning and model development.
- Supported experimentation and evaluation for applied AI workflows.

Algorithm Intern — Hikvision | Feb 2022 – Jun 2023

- Worked on face anti-spoofing and face detection algorithms for biometric security scenarios.
- Contributed to practical computer vision modeling and evaluation tasks.

SELECTED PUBLICATIONS

- **FaceShield**. AAAI 2026.
- **SHIELD**. Visual Intelligence, 2025.
- **AMSnet-KG**. ACM TODAES, 2025.
- **AMSbench**. arXiv, 2025.
- **AMSnet 2.0**. arXiv, 2025.
- **AMSNet**. LAD 2024 Best Paper Award.
- **Symbol and Footprint Database for Electronic Components by Agentic Recognition and Generation**. PRCV 2025.

PROJECT HIGHLIGHTS

- Built **AMSNet**, **AMSnet 2.0**, and **AMSnet-KG**, a line of datasets and infrastructure for AMS circuit understanding, netlist generation, and LLM-based auto-design.
- Developed **AMSbench**, a benchmark for evaluating multimodal large language models on AMS circuit perception, analysis, and design tasks.
- Contributed to **FaceShield** and **SHIELD**, covering explainable face anti-spoofing, face forgery detection, multimodal evaluation, and model reasoning.
- Co-founded **FEATs** (Future EDA and AI Techniques Seminar) to support academic exchange among early-career researchers in AI and EDA.

TECHNICAL SKILLS

- **Programming:** Python, C++
- **Domains:** machine learning, multimodal learning, large language models, computer vision, EDA, AMS circuits
- **Research Workflow:** dataset construction, benchmarking, model evaluation, experiment design, academic writing

AWARDS

- **LAD 2024 Best Paper Award** — for AMSNet: Netlist Dataset for AMS Circuits
- Lanqiao Cup, Hebei Province — First Prize (Ranked 1st), 2020
- HBCPC — Gold Medal (Top 10), 2020 and 2019
- ACM-ICPC Xi'an Regional — Bronze Medal, 2019
- CCF-CCSP North China Regional — Bronze Medal, 2019
- ACM-ICPC Ningxia Regional — Bronze Medal, 2018