

# Shuren Gabriel Yu

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## EDUCATION

### Tsinghua University

B.Eng. in Software Engineering

Beijing, China

Sep 2022 - Jun 2026 (Expected)

- **GPA:** 3.6/4.0 (3.83 in junior year)

- **Key Courses:** Artificial Intelligence, Database Systems, Computer Architecture, Probability & Statistics

- **Research Interests:** Biomedical AI, Graph Representation Learning, and Multimodal Machine Learning

## PUBLICATIONS

### HyperPriv-EPN: Hypergraph Learning with Privileged Knowledge for Ependymoma Prognosis

Shuren G. Yu, Sikang Ren, Yongji Tian

Under Review at Multimedia Conference (CCF-B)

- Preprint available on [arXiv]

## RESEARCH EXPERIENCE

### The Intelligent Media and Cognition Laboratory, Tsinghua University

Undergraduate Researcher | Advisor: Prof. Gao Yue

Beijing, China

Aug 2024 - Present

- Developed HyperPriv-EPN, a hypergraph neural network framework for Ependymoma prognosis
- Processed 300+ MRI sequences and clinical reports in collaboration with Beijing Tiantan Hospital
- Integrated a Learning Using Privileged Information (LUPI) model to improve robustness
- Surpassed State-of-the-Art (SOTA) benchmarks in diagnostic classification and survival prediction
- Led end-to-end research pipelines including data cleaning, system design, and ablation studies

### Computer Vision Group, Tsinghua University

Student Research Trainee | Advisor: Prof. Liu Yushen

Beijing, China

Apr 2024 - Jul 2024

- Reviewed papers on 3D scene reconstruction and view synthesis methods (NeRF, Gaussian Splatting)
- Reproduced key experiments in PyTorch to understand neural rendering frameworks

### Network Systems Group, Tsinghua University

Student Research Trainee | Advisor: Prof. Li Zhenhua

Beijing, China

July 2023 - Feb 2024

- Developed user interface for a bandwidth measurement tool in collaboration with Huawei researchers
- Integrated frontend components with underlying TCP-based testing modules built by the research team
- Presented the project at the Tsinghua Innovation Challenge Cup, recognized as a group finalist

## PROFESSIONAL EXPERIENCE

### Kuaishou Technology | Leading short-video platform with 300M+ daily users

Software Engineering Intern

Beijing, China

Jun 2025 - Aug 2025

- Designed and built a pipeline for real-time AI-generated livestreams capable of interactive response
- Deployed multi-module video synthesis pipeline on multi-GPU infrastructure for internal testing
- Fine-tuned speech-driven facial animation frameworks (e.g. Wav2Lip) for realistic lip-sync
- Work led to successful internal deployment testing by Kuaishou's Kling AI group

## AWARDS & HONORS

- Tsinghua University Technology and Innovation Scholarship – Academic Excellence
- Ministry of Education Student Scholarship (3rd Class) – Twice awarded
- Tsinghua University 3D Design & Innovation Competition – Grand Prize (Top 1%)
- National Software Innovation Competition (North China Division) – 2nd Prize
- Tsinghua University Innovation Challenge Cup – Project Finalist
- Hong Kong City Innovation & Technology Grand Challenge – Champion

Oct 2025

2024 & 2025

Apr 2025

Feb 2025

Feb 2024

Dec 2021

## SKILLS

- **Programming:** Python (PyTorch, Pandas, NumPy, Scikit-learn, SQL), C++
- **Tools & Frameworks:** Linux, Git, Matplotlib, TensorBoard
- **Languages:** English (native), Mandarin (native)

## ADDITIONAL INFORMATION

- **Standardized Tests:** GRE: 332 (162V/170Q/6.0AWA); TOEFL: 117
- **Interests:** Running, swimming, art, cuisine, mechanical watches