Chendong Wang

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Education

University of Wisconsin-Madison 2021/09 — Now
Ph.D. in Computer Science Madison, WI, USA

University of Minnesota 2019/09 — 2021/06
Master of Science in Computer Science, GPA 3.926/4.0 Minneapolis, MN, USA

Fudan University 2014/09 — 2019/07
B.S. in Theoretical and Applied Mechanics, Top 20%; Minor in Data Science Shanghai, China

Publications

Video-in-the-Loop: Efficient Two-Stage Framework for Temporal Video Grounding and Multi-Choice QA **In submission**
To be revealed

Zoomer: Enhancing MLLM Performance with Adaptive Image Focus Optimization **In submission**
To be revealed

Switched or Switchless: An Empirical Study of SAN Architecture for Disaggregated Storage **NSDI 2026**
Chendong Wang, Joontaek Oh, and Ming Liu

VoLUT: Efficient Volumetric streaming enhanced by LUT-based super-resolution **MLSys 2025**
Chendong Wang, Yifan Yang, Lili Qiu, Anlan Zhang, Yuqing Yang, Xinyang Jiang, Suman Banerjee

Habitus: Boosting Mobile Immersive Content Delivery through Full-body Pose Tracking and Multipath Networking **NSDI 2024**
Anlan Zhang, Chendong Wang, Yumin Hu, Ahmad Hassan, Zejun Zhang, Bo Han, Feng Qian, Shichang Xu

YuZu: Super-resolution Enhanced Volumetric Video Streaming **NSDI 2022**
Anlan Zhang, Chendong Wang, Bo Han, Feng Qian

Efficient Volumetric Video Streaming Through Super Resolution **HotMobile 2021**
Anlan Zhang, Chendong Wang, Bo Han, Feng Qian

Mobile Volumetric Video Streaming Enhanced by Super Resolution **MobiSys 2020 Poster**
Anlan Zhang, Chendong Wang, Xing Liu, Bo Han, Feng Qian

Firefly: Untethered Multi-user VR for Commodity Mobile Devices **USENIX ATC 2020**
Xing Liu, Christina Vlachou, Feng Qian, Chendong Wang, and Kyu-Han Kim

Work Experience

SGLang RL Team 2025/03 — Now
Active Contributor Remote

- Enabled SGLang integration within the Verl framework and implemented SPIN algorithms with full SGLang support, improving inference efficiency and scalability.
- Adding an efficient video inference rollout pipeline to accelerate multi-modal workloads and reduce resource occupancy.

Meta Inc. 2025/05 — 2025/08
SDE Intern, Mentor: Jun Seok Lee Bellevue, WA, USA

ByteDance Inc. 2024/05 — 2024/08
Research Intern, Mentor: Yan Sun San Jose, CA, USA

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- Developed a topology-aware collective communication optimization framework for PCIe-based GPU clusters, improving P2P bandwidth by up to **30%** through shared memory and chunk size optimizations.
- Investigated RDMA scalability solutions for Expert Parallel inference in large language models, implementing a bitmap pooling mechanism to handle ≥ 1000 queue pairs efficiently.

Microsoft Research Asia (MSRA) 2023/05 — 2023/08
Research Intern, Mentor: Prof. Lili Qiu Shanghai, China
- Enhanced the performance of volumetric video streaming by applying an inference speeding up technique called LUT. Provided a frame rate speed up by over **10X**.
- Surveyed the existing upsampling approach for 3D point clouds and drafted a conference paper for submission.

Hewlett-Packard Company (HP) 2018/10 — 2019/05
R&D Intern Shanghai, China
- Implemented a framework that transfers text to voice data by adopting WaveRNN.
- Researched on NLP algorithms with capability of deduction.

Research Experience

Efficient Volumetric Video Streaming Through Super Resolution 2019/09 — Now
University of Minnesota - Advisor: Professor Feng Qian Minneapolis, MN, USA
- Co-Developed a point cloud video streaming system that leverages super-resolution method to reduce bandwidth while maintaining visual quality.
- Adopted numerous optimization methods to ensure the streaming frame rate at 30 fps.

Untethered Multi-user VR for Commodity Mobile Devices 2019/12 — 2020/02
University of Minnesota - Advisor: Professor Feng Qian Minneapolis, MN, USA
- Co-Developed and conducted the VR experiments on Android platform.
- Co-Designed the metrics and compared the results with baselines.

Application of Reinforcement Learning in Congestion Control 2018/06 — 2019/05
Fudan University - Advisor: Professor Yuedong Xu Shanghai, China
- Reproduced the result of Remy, a learning-based congestion control algorithm, as the baseline.
- Worked on designing a DRL method to produce better congestion control results.

Developing a Traffic Flow Prediction Method Based on LSTM 2019/03 — 2019/05
Fudan University (Undergraduate Thesis) - Advisor: Professor Mingmin Guo Shanghai, China
- Modeled the basic traffic flow problem and collected dataset with video and simulation.
- Developed an LSTM model that can help the decision of Automated Vehicle based on surrounding traffic flow.

Honors & Awards

Third Prize, China Undergraduate Mathematical Contest in Modeling 2017

Third Prize, Elite Experiment Scholarship 2017, 2018

Skills

- **Programming Languages**: Python, C, C++, Matlab
- **Math Skills**: Probability & Statistics, Pattern Recognition & Machine Learning, Measure Theory, Discrete Mathematics

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