

Yixiao Qian

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Education

- Sep. 2023 – Present 📖 **Zhejiang University**
Ph.D. in Control Science and Engineering
- Sep. 2019 – Jun. 2023 📖 **Zhejiang University**
B.S. in School of Mathematical Science

Publications and Preprints

- 1 **Yixiao Qian**, Song Chen, Pengkai Wang, Jiaxu Liu, Shengze Cai, and Chao Xu. DART: Decoded Attention over Recurrent States for Efficient Long-Context Sequence Modeling. In: *arXiv preprint arXiv:2608.02032* (2026). 🔗 URL: <https://arxiv.org/abs/2608.02032>.
- 2 **Yixiao Qian**, Song Chen, Jiaxu Liu, Shengze Cai, and Chao Xu. DSSMs: State Space Models with Explicit Memory via Delay Differential Equations. In: *arXiv preprint arXiv:2607.10244* (2026). 🔗 URL: <https://arxiv.org/abs/2607.10244>.
- 3 Yan Tan, **Yixiao Qian**, Zhiqi Li, and Qinghai Zhang. A Multiphase Cubic MARS Method for Fourth- and Higher-Order Interface Tracking of Two or More Materials with Arbitrary Topology and Geometry. In: *Journal of Scientific Computing* 107.3 (2026), p. 77. 🔗 DOI: 10.1007/s10915-026-03284-x.
- 4 Jiaxu Liu, **Yixiao Qian**, Pengkai Wang, Song Chen, Shengze Cai, and Chao Xu. Accelerated Decentralized Federated Learning on Heterogeneous Data. In: *IEEE Internet of Things Journal* 13.8 (2026), pp. 15417–15431. 🔗 DOI: 10.1109/JIOT.2026.3656664.
- 5 Jiaxu Liu, Pengkai Wang, **Yixiao Qian**, Song Chen, Jinming Xu, Shengze Cai, and Chao Xu. Distributed Online Constrained Convex Optimization With Compressed Communication. In: *IEEE Transactions on Network Science and Engineering* 13 (2026), pp. 7899–7913. 🔗 DOI: 10.1109/TNSE.2026.3676217.
- 6 **Yixiao Qian**, Jiaxu Liu, Zewei Xia, Song Chen, Chao Xu, and Shengze Cai. Distributed physics-informed neural networks via domain decomposition for fast flow reconstruction. In: *arXiv preprint arXiv:2602.15883* (2026). 🔗 URL: <https://arxiv.org/abs/2602.15883>.
- 7 **Yixiao Qian**, Weizhen Li, Yan Tan, and Qinghai Zhang. A fourth-order, multigrid cut-cell method for solving Poisson's equation in three-dimensional irregular domains. In: *arXiv preprint arXiv:2410.05865* (2024). 🔗 URL: <https://arxiv.org/abs/2410.05865>.

Talks

- Aug. 2026 📖 **ICBS 2026**
DART: Decoded Attention over Recurrent States
Beijing, China; with Prof. Chao Xu
- Jul. 2026 📖 **Control AI 2026**
DSSMs: State Space Models with Explicit Memory via Delay Differential Equations
Northeast Normal University, Changchun, China

Teaching

- 2023–2024 📖 Teaching Assistant for **Mathematical Software**
Prof. Heyu Wang; Spring–Summer
- 2022–2023 📖 Teaching Assistant for **Calculus**
Prof. Heyu Wang; Spring–Summer