

# Xinyi Zhuang (庄新一)

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## RESEARCH INTERESTS

### Network for Artificial Intelligent:

- Distributed Training and Inference of Large AI Models
- Mobile Edge Computing and Edge intelligence

### Artificial Intelligent for Network:

- Generative Artificial Intelligence and Network Optimization
- Multi-Agent Reinforcement Learning and Its Applications

## EDUCATION

<b>Northwestern Polytechnical University</b> , Xi'an, Shaanxi, China	Aug. 2019   Jul. 2023
Bachelor of Engineering in Communication Engineering, Outstanding Graduate	Cumulative GPA: 3.8/4.1
Thesis Title (Outstanding Graduation Thesis): Task Offloading Strategy in Internet of Vehicles Based on Multi-Agent Reinforcement Learning	
<b>Harbin Institute of Technology (Shenzhen)</b> , Shenzhen, Guangdong, China	Aug. 2023   Now
Doctor of Philosophy in Information and Communication Engineering (Expected)	Cumulative GPA: 3.4/4.0

## SELECTED FIRST-AUTHOR PAPERS

- [1] **Xinyi Zhuang**, J. Wu, H. Wu, T. Zhang, and L. Gao, "Joint optimization of model inferencing and task offloading for MEC-empowered large vision model services," in *Proc. IEEE Int. Conf. Comput. Commun. (INFOCOM)*, Accepted, 2025. (CCF A)
- [2] **Xinyi Zhuang**, J. Wu, H. Wu, M. Tang, and L. Gao, "QoS-driven hybrid inference scheme for generative diffusion models in MEC-enabled AI-generated content networks," in *Proc. IEEE Int. Conf. Commun. (ICC)*, Accepted, 2025. (CCF C)

## FULL PUBLICATIONS

### Journal Papers:

Summary: 1 out of 1 journal papers are published in CCF A journals, 1 out of 1 journal papers are published in SCI Q1 journals, and 1 out of 1 journal papers are published in JCR Q1 journals.

- [1] **Xinyi Zhuang**, Jiaqi Wu, Yuan Luo, Ming Tang, Lin Gao, Qinyu Zhang, Huaizhe Liu, and Hongjia Wu, "A novel hybrid inference scheme for diffusion-based AIGC services," *IEEE J. Sel. Areas Commun. (JSAC)*, Under Revision. (CCF A, SCI Q1, JCR Q1)
- [2] J. Wu, **Xinyi Zhuang**, M. Tang, and L. Gao, "QoE-aware offloading and resource allocation for MEC-empowered AIGC services," *IEEE Trans. Mobile Comput. (TMC)*, Early Access, 2025. (CCF A, SCI Q1, JCR Q1)

**Conference Papers:**

Summary: 1 out of 3 conference papers are published in CCF A conference proceedings, and 2 out of 3 conference papers are published in CCF A/B/C conference proceedings.

- [1] X. Guo, C. Zhang, X. Chen, D. Zhao, **Xinyi Zhuang\***, J. Wu, H. Liu, and L. Gao, “Joint optimization of offloading, scheduling, and inferencing for MEC-empowered AIGC services,” *Proc. IEEE Global Commun. Conf.*, Taipei, China, Under Revision. (\*Corresponding Author) (CCF C)
- [2] **Xinyi Zhuang**, J. Wu, H. Wu, M. Tang, and L. Gao, “QoS-driven hybrid inference scheme for generative diffusion models in MEC-enabled AI-generated content networks,” in *Proc. IEEE Int. Conf. Commun. (ICC)*, Accepted, 2025. (CCF C)
- [3] **Xinyi Zhuang**, J. Wu, H. Wu, T. Zhang, and L. Gao, “Joint optimization of model inferencing and task offloading for MEC-empowered large vision model services,” in *Proc. IEEE Int. Conf. Comput. Commun. (INFOCOM)*, Accepted, 2025. (CCF A)
- [4] H. Liu, J. Wu, **Xinyi Zhuang**, H. Wu, and L. Gao, “Joint communication and computation scheduling for MEC-enabled AIGC services based on generative diffusion model,” in *Int. Symp. Model. Optim. Mobile, Ad Hoc, Wireless Netw. (WiOpt)*, Seoul, Republic of Korea, Oct. 2024, pp. 345-352.

**AWARDS**

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**Outstanding Graduation Thesis**

Northwestern Polytechnical University, 2023

**Outstanding Graduate**

Northwestern Polytechnical University, 2023

**Soaring Scholarship**

Beijing International Trust Co., Ltd., 2022

**TALKS**

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- Multi-Task Hybrid Inference Optimization for Large Vision Models (with my mentor Prof. Lin Gao), International Conference on Intelligent Networks and Communication Systems.

**ENGLISH**

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**IELTS (Academic): 6.5** (overall score)

Test Date: May 2022

**CET-4: 581** (overall score)

Test Date: Dec. 2019