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教育经历

2025/11 – 2026/3 **博士 (访问研究), 新加坡南洋理工大学 (NTU)**, 下一代超可靠低时延通信, 导师: **Prof. Dusit Niyato**.

2023/9 – 2026/6 **博士, 中国科学技术大学 (USTC)**, 信息与通信工程, 导师: **陈长汶教授**和**卢汉成教授**.
毕业论文题目: 《基于统计服务质量的下一代超可靠低时延通信机制研究》

2021/9 – 2023/6 **硕士 中国科学技术大学 (USTC)**, 电子与通信工程 (硕转博), 导师: **卢汉成教授**

2017/9 – 2021/7 **本科, 合肥工业大学 (HFUT)**, 电子信息科学与技术, 导师: **汪萌教授** (2024 科学探索奖获得者).
毕业论文题目: 《基于移动边缘计算的虚拟现实传输系统设计》 (**优秀毕业论文和优秀毕业生**)

2014/9 – 2017/7 **福建省莆田第一中学 (PTYZ), 福建省优秀三好学生荣誉.**

工作履历

2024/8 – 至今 **全职研究助理**, 香港理工大学电子计算学系, 视频物联网 (Internet-of-Video-Things, IoVT), 合作导师: 陈长汶 (Prof. Chang-Wen Chen) 院士.
研究内容: 研究将场景图生成 (SGG) 作为时间关键和任务特定的视频物联网的有效语义通信机制, 分配网络资源以优化噪声信道上的语义通信性能。
研究成果: 2 篇 IEEE TWC (Under Review).

2022/8 – 2023/7 **技术研究工程师 (实习)**, 新华三 (H3C) 技术有限公司, 合肥网络研究部, 下一代无线网络技术研究, 合作导师: 王明辉博士.
研究内容: 针对多用户沉浸式视频传输场景中的 FoV 重叠问题, 利用 RSMA 技术设计重叠视场感知的最优组播/单播分配和基于随机网络演算的统计 QoS 供应方案, 提出最优自适应联合资源分配和主动丢弃传输方案。
研究成果: 1 篇 IEEE TWC, 1 项发明专利.

工作履历 (continued)

2025/6 – 2025/9 **助理工程师 A (个人职级 13, 实习)**, 华为中央研究院, 2012 实验室, 多媒体通信技术研究, 合作导师: 马梦瑶 (技术专家 A, 20 级).
研究内容: 基于 3DGS 的无线辐射场重建和端云协同传输, 降低 Cloud/Edge 端 LoD 计算开销，并使渲染传输开销节省 99%.
研究成果: 发明专利《一种基于三维高斯泼溅的端云协同传输方法》(内部评审).

2023/9 – 2024/1 **课程助教 (兼职)**, 中国科学技术大学电子工程与信息科学系, 信息网络协议技术, 合作导师: 卢汉成教授

研究方向

理论工具 排队论, 随机网络演算, 深度学习, 极值理论, 博弈论, 凸优化理论, 随机过程, 信息理论。

无线信号处理 下一代超可靠低时延通信 (xURLLC), 通感一体化 (ISAC), 下一代多址接入技术, 微服务架构, 移动边缘计算.

语音信号处理 语音信号重构, 面瘫语音分析, 基频提取, 电声门图信号重建, 语音编解码架构.

研究经历

科研项目参与

2024/12—2025/6 **项目名称:** 《**面瘫患者语音识别及分析研究**》.

- **项目描述:** 中国科学技术大学和上海交通大学医学院附属瑞金医院合作项目
- **职责分工:** 采集面瘫患者语音数据, 利用深度学习技术提高面瘫患者语音识别的准确率 (**项目负责人**, 3 万 RMB)

2024/12—2025/12 **项目名称:** 《**面向极端环境的高速率组网通信系统**》.

- **项目描述:** 中国科学技术大学 2024 年雏鹰基金，No. CY2024X012B
- **职责分工:** 本人负责数据中心网络中的拥塞控制和流量工程、可靠性管理和微服务部署 (**项目负责人**, 10 万 RMB)

研究经历 (continued)

2024/8—2025/9

项目名称: Investigating Reconfigurable Intelligent Surface Empowered Wireless Networking for Internet-of-Video-Things.

- **项目描述:** Hong Kong RGC General Research Fund (GRF), No. 15213322. 合作导师: 陈长汶 (Prof. Chang-Wen Chen) 院士
- **职责分工:** 以全职研究助理身份，参与 RIS 辅助的无线视频物联网传输优化机制研究 (**主研**)

2024/8—2025/9/1

项目名称: Investigating SGG as an Effective Semantic Communication Mechanism for Time-Critical and Task-Specific IoVT.

- **项目描述:** Hong Kong RGC General Research Fund (GRF), No. 15229423. 合作导师: 陈长汶 (Prof. Chang-Wen Chen) 院士
- **职责分工:** 以全职研究助理身份，参与场景图生成的语义通信传输优化机制研究 (**主研**)

2024/7—2028/6

项目名称: 生物语言学视角下多学科交叉汉语声调研究.

- **项目描述:** 中国科学技术大学融合科学领域项目计划，No. KJRW-202302 . 合作导师: 袁家宏教授和凌震华教授 (2023 年度国家科学技术进步奖一等奖)
- **职责分工:** 负责便携式 EGG 与口鼻气流设备，基于深度学习的 Fo 提取算法和 EGG 重构研究 (**主研**)

2022/1—2025/12

项目名称: 基于用户边缘资源的沉浸式视频智能传输技术研究.

- **项目描述:** 国家自然科学基金区域创新发展联合基金, No. U21A20452. 合作导师: 卢汉成教授
- **职责分工:** 负责沉浸式视频稳健传输和资源优化方案研究 (**主研**)

2021/12—2025/12

项目名称: 新型信息服务的表征与适配机制.

- **项目描述:** 国家重点研发计划项目，2020YFA0711400. 合作导师: 卢汉成教授
- **职责分工:** 负责边缘网络拓扑感知的微服务部署方法和实际平台实现 (**主研**)

研究经历 (continued)

2021/12—2022/12

项目名称: 基于空口质量信息开放的无线视频传输技术研究.

- **项目描述:** 华为技术有限公司校企合作项目, EF2100060081. 合作导师: 卢汉成教授
- **职责分工:** 负责 5G NR 无线视频传输的有效容量机制研究 (**主研**)

2025/12—2030/12

项目名称: 面向难治性癫痫植入式脑机接口系统的大脑可塑性机制研究.

- **项目描述:** 国家科技重大专项青年科学家项目 (500 万). 合作导师: 何晓松教授
- **职责分工:** 以研究助理身份，植入式脑机接口采集得到的脑电信号处理和相应算法设计 (**主研**)

关键科研成就

2021/9—Now

《面向下一代超可靠和低延迟通信 (xURLLC) 的统计 QoS 配置理论研究》我们从随机网络演算 (SNC) 的角度研究了新一代超可靠低延迟通信 (xURLLC) 的基本原理和性能权衡。通过利用和推广 SNC，我们提供了一种定量的统计服务质量 (QoS) 配置分析，并推导出了 xURLLC 网络中一些关键性能指标的封闭式表达式。基于所提出的理论框架，我们设计了几种低复杂度的算法来优化 xURLLC 网络的性能指标，如能量效率、延迟违规概率等. **主要合作学者:** Prof. Yansha Deng and Prof. Arumugam Nallanathan

2022/5—Now

《以用户为中心的移动边缘计算 (UCMEC) 中的任务卸载和资源分配》为了突破基于蜂窝的移动边缘计算 (MEC) 的传输和计算能力瓶颈，我们提出了一种新的 MEC 框架，称为 "以用户为中心的 MEC"(UCMEC)，它可以为用户提供高效、可靠、低成本的以用户为中心的无线传输和边缘计算服务。为了进一步发挥 UCMEC 的优势，我们提出了各种算法来优化不同场景下 UCMEC 中的任务卸载和资源分配策略. **主要合作学者:** Mr. Langtian Qin 和吴枫教授.

2021/12—Now

《适配动态无线网络的沉浸式视频智能传输方案研究》为了提供泛化能力，我们构建了一个具有自学习能力的基于元学习的模型，并将其与强化学习相结合，以快速准确地适应码率。我们建立了一个以用户为中心的基站集群通信模型，以突破覆盖范围的限制，并提出了多频带协作来克服用户移动和链路不稳定的影响。我们还研究了智能波束跟踪技术，以提高 360°VR 视频传输的可靠性. **主要合作学者:** Prof. Chang-Wen Chen 和 卢汉成教授.

研究经历 (continued)

2024/6—Now

- 《**基于深度学习的语音基频提取方法研究**》我们探索了使用深度学习进行语音基频提取的可行性。我们提出了 Wav2fo 方法，该方法在越南语和普通话等许多语料库上进行了训练和性能评估，实现了准确的 Fo 提取精度。此外，我们提出了一种名为 EGGCodec 的语音编解码器框架，该框架侧重于重建电声门图 (EGG) 信号，以准确提取 Fo. **主要合作学者:** 袁家宏教授和凌震华教授

其他经历

学术服务

学术协会会员

- **IEEE 研究生会员; IEEE 通信学会会员; IEEE 青年学者.**

学术期刊审稿

- **IEEE Wireless Communications Letters; IEEE Communications Letters; IEEE Transactions on Network and Service Management (TNSM); IEEE Transactions on Communications (TCOM); IEEE Transactions on Wireless Communications (TWC); IEEE Transactions on Mobile Computing (TMC); IEEE Internet of Things Journal (IoTJ); IEEE Transactions on Vehicular Technology; IET Communications.**

学术会议审稿

- **2023, 2024 IEEE Global Communications Conference (GLOBECOM); 2023, 2024 IEEE International Conference on Wireless Communications and Signal Processing (WCSP); 2024 IEEE International Conference on Communications (ICC); 2024 IEEE International Conference on Computer Communications (INFOCOM)**

学术交流/报告

- 2023 IEEE 国际通信会议 (ICC), 意大利 · 罗马 · 国际会议中心, Robust wireless VR video transmission based on overlapped FoVs (Oral)
- 2024 IEEE 国际口语处理研讨会 (ISCSLP), 中国 · 北京 · 国际会议中心, Wav2Nas: An Exploratory Approach to Nasalance Estimation in Speech (Oral)
- 2025 第十届大连市国际青年学者交流会信息与通信工程分论坛, 大连 · 国际会议中心, 《基于统计服务质量的下一代超可靠低时延通信机制研究》 (Oral)

其他经历 (continued)

- 第十届南开大学国际人才论坛, 南开大学计算机学院 (密码与网络空间安全学院), 天津 · 国际会议中心, Title: Research on Ultra-Reliable and Low-Latency Communications (URLLC) with Statistical QoS Provisioning (Oral)

奖励和荣誉

2025
- **博士研究生国家奖学金** (授予前 1%);
- **中国科学技术大学优秀博士生出国留学全额资助奖学金** (全校仅 20 人);

2024
- **环球数码科技奖学金** (全系仅 5 名); 2024 ACM Multimedia Systems Conference (MMSys) 挑战赛 · 字节跳动主办 **世界排名第六**

2023
- **中国科学技术大学博士研究生一等学业奖学金**.

2022
- **中国科学技术大学硕士研究生一等学业奖学金**.

2021
- **安徽省优秀毕业生** (授予全省前 1%); **合肥工业大学优秀毕业生** (授予全校前 5%); **中国科学技术大学硕士研究生一等学业奖学金**;

2020
- **合肥工业大学创新科技之星** (全系唯一); **合肥工业大学本科生一等学业奖学金**

2019
- **本科国家奖学金** (授予前 1%); **全球跨学科数学建模竞赛（ICM）一等奖** (授予前 1%); **全国大学生数学建模竞赛省级三等奖**; **合肥工业大学本科生一等学业奖学金**; **全国大学生电子设计大赛省级二等奖**

2018
- **合肥工业大学本科生一等学业奖学金**; **全国大学生数学竞赛 (非数学类) 国家三等奖**.

2014
- **福建省三好学生荣誉称号** (全校唯一)

技能和特长

语言能力
- 较强的英语听力, 阅读, 和写作能力.

Coding
- 较强的编程能力: MATLAB, Python, C/C++, Java, and JavaScript.

擅长的开发工具
- Pycharm, VS Code, WebStorm, Eclipse, Keil, Remix, CORE, Mininet.

技能和特长 (continued)

技术/系统搭建	Linux, GitHub, Git, Tensorflow, Pytorch, Cesium, K8s.
其他	学术研究, 教学, 培训, 咨询, LaTeX 排版出版, 羽毛球, 短跑 (最好成绩: **11 秒 8**)

学术论文发表

期刊论文集

1. **Y. Chen**, Hancheng Lu, Langtian Qin, Yansha Deng, and Arumugam Nallanathan. "When xURLLC Meets NOMA: A Stochastic Network Calculus Perspective". *in IEEE Communications Magazine* 62.6 (2024), pp. 90–96. DOI: 10.1109/MCOM.020.2300156.

2. **Y. Chen**, Hancheng Lu, Langtian Qin, Chenwu Zhang, and Chang Wen Chen. "Statistical QoS Provisioning Analysis and Performance Optimization in xURLLC-enabled Massive MU-MIMO Networks: A Stochastic Network Calculus Perspective". *in IEEE Transactions on Wireless Communications* 23.7 (2024), pp. 8044–8058. DOI: 10.1109/TWC.2023.3347667.

3. **Y. Chen**, Hancheng Lu, Langtian Qin, Chang Wu, and Chang Wen Chen. "Streaming 360-degree VR video with statistical QoS provisioning in mmWave networks from delay and rate perspectives". *in IEEE Transactions on Wireless Communications* 24.6 (2025), pp. 4721–4737. DOI: 10.1109/TWC.2025.3543615.

4. **Y. Chen**, Fangyu Zhang, Chang Wu, Hancheng Lu, and Changwen Chen. "TAIA-MD: Topology-aware and Individual-adaptive Microservice Deployment Optimization and Implementation in Edge Networks". *in IEEE Transactions on Mobile Computing* 24.7 (2025), pp. 6090–6105. DOI: 10.1109/TMC.2025.3539312.

5. **Y. Chen**, Hancheng Lu, Chang Wu, Langtian Qin, and Xiaobo Guo. "Performance Optimization in RSMA-assisted Uplink xURLLC IIoT Networks with Statistical QoS Provisioning". *in IEEE Transactions on Wireless Communications* (2025, Early Access). DOI: 10.1109/TWC.2025.3577694.

6. **Y. Chen**, Hancheng Lu, Chenwu Zhang, Yansha Deng, and Arumugam Nallanathan. "Enhancing xURLLC with RSMA-Assisted Massive-MIMO Networks: Performance Analysis and Optimization". *in IEEE Transactions on Communications* (2025, Early Access). DOI: 10.1109/TCOMM.2025.3581971.

7. **Y. Chen**, Chengdi Lu, Chang Wu, Fengqian Guo, Hancheng Lu, and Changwen Chen. "DMSA: A Decentralized Microservice Architecture for Edge Networks". *to appear in IEEE Transactions on Mobile Computing (TMC) **Accepted*** (2025). DOI: 10.48550/arXiv.2501.00883.

8. **C. Wu**†, **Y. Chen**†, and Hancheng Lu. "Statistical QoS Provision in Business-Centric Networks". *in IEEE Transactions on Wireless Communications, **Accept, Co-First Author***) (2025). DOI: 10.1109/TWC.2025.3616374.

9. **Y. Chen**, Chang Wu, Shuyi Liu, Fengqian Guo, Hancheng Lu, and Chang Wen Chen. "AoI-Aware Task Offloading and Transmission Optimization for Industrial IoT Networks: A Branching Deep

Reinforcement Learning Approach". *submitted to* ***IEEE Transactions on Mobile Computing (Under Major Revisions)*** (2025 [PDF]).

10 **Y. Chen**, Chang Wu, Fengqian Guo, Hancheng Lu, and Chang Wen Chen. "Joint Offloading, Grouping, and Power Allocation Optimization in NOMA-Assisted Delay-Sensitive Systems with Multi-MEC Networks". *submitted to* ***IEEE Transactions on Mobile Computing (Under Review)*** (2025).

11 **Y. Chen**, Chang Wu, Langtian Qin, Fangyu Zhang, Shuyi Liu, Hancheng Lu, Yansha Deng, Arumugam Nallanathan, and Chang Wen Chen. "Statistical QoS Provisioning for Next-Generation Wireless Communication: Vision, Challenges, and Opportunities". *submitted to* ***IEEE Communications Surveys and Tutorials, (Under Review)*** (2025).

12 **Y. Chen**, Chang Wu, Hancheng Lu, Yansha Deng, Arumugam Nallanathan, and Chang Wen Chen. "Statistical QoS Provisioning Analysis and Performance Optimization in xURLLC-enabled Integrated Sensing and Communication Networks". *submitted* *to* ***IEEE Journal on Selected Areas in Communications (Under Review)****, on Special Issue "Secure Communication, Sensing, and Computation in Future Intelligent Wireless Networks"* (2025).

13 **Y. Chen**, Hancheng Lu, and Chang Wen Chen. "Statistical QoS Provisioning Analysis and Performance Optimization for Task-Oriented Ultra-Reliable Low-Latency Semantic Communications". *submitted* *to* ***IEEE Transactions on Communications*** *(Under Review)* (2025).

14 **Y. Chen**, Hancheng Lu, and Chang Wen Chen. "Task-Oriented Scene Graph Generation (SGG) for Ultra-Reliable and Low-Latency Semantic Communication". *submitted* *to* ***IEEE Transactions on Wireless Communications*** *(Under Review)* (2025).

15 **C. Lu**†, **Y. Chen**†, and Hancheng Lu. "Proactively Prevent Data Center Buffer Overflow with Minimized Impact: A Fast and Accurate Flow Control Method". *submitted to IEEE Transactions on Network and Service Management,* ***Under Major Revisions, Co-First Author*** (2024 [PDF]).

16 **Feng, Rui**†, **Y. Chen**†, Yu Hu, Jun Du, and Jiahong Yuan. "EGGCodec: A Robust Neural Encodec Framework for EGG Reconstruction and Fo Extraction". *to be appeared in IEEE Signal Processing Letters* (***Accepted, Co-First Author***) (2025). DOI: 10.48550/arXiv.2508.08924.

17 **Feng, Rui**†, **Y. Chen**†, Yinlong Liu, Yu Hu, Jun Du, and Jiahong Yuan. "EGGNet: Learning Temporal Boundaries of Glottal Cycles from EGG". *in IEEE Transactions on Signal Processing (IEEE TSP)* (***Under Major Revisions, Co-First Author***) (2025 [PDF]).

18 **C. Wu**†, **Y. Chen**†, Yiyuan Chen, Fengqian Guo, Xiaowei Qin, and Hancheng Lu. "Physiological Signal-Driven QoE Optimization for Wireless Virtual Reality Transmission". (*submitted to IEEE Communications Magazine,* ***Under Review, Co-First Author***) (2025 [PDF]).

19 Fangyu Zhang, **Y. Chen**, Hancheng Lu, and Yongsheng Huang. "Network-Aware Reliability Modeling and Optimization for Microservice Placement". *in IEEE Transactions on Network and Service Management* (2024, Early Access). DOI: 10.1109/TNSM.2025.3562913.

20. Fangyu Zhang, **Y. Chen**, Hancheng Lu, and Chengdi Lu. "VNF Migration with Fast Defragmentation: A GAT-Based Deep Learning Method". *submitted to IEEE IEEE Transactions on Network and Service Management, **Under Major Revisions*** (2024). DOI: 10.48550/arXiv.2410.10086.

21. Shuyi Liu, **Y. Chen**, and Hangcheng Lu. "SRH-Aware Traffic Engineering in Hybrid IP/SRv6 Networks with Deep Reinforcement Learning". *submitted to IEEE Transactions on Network and Service Management, **Under Major Revisions*** (2024 [PDF]).

22. Langtian Qin, Hancheng Lu, **Y. Chen**, Baolin Chong, and Fengqian Guo. "Joint Transmission and Resource Optimization in NOMA-Assisted IoVT With Mobile Edge Computing". *in IEEE Transactions on Vehicular Technology* 73.7 (2024), pp. 9984–9999. DOI: 10.1109/TVT.2024.3364358.

23. Chang Wu, Hancheng Lu, **Y. Chen**, and Langtian Qin. "Cross-Layer Optimization for Statistical QoS Provision in C-RAN with Finite-Length Coding". *in IEEE Transactions on Communications* 72.6 (2024), pp. 3393–3407. DOI: 10.1109/TCOMM.2024.3370817.

24. Langtian Qin, Hancheng Lu, **Y. Chen**, Zhuojia Gu, Dan Zhao, and Feng Wu. "Energy-Efficient Blockchain-Enabled User-Centric Mobile Edge Computing". *in IEEE Transactions on Cognitive Communications and Networking* 10.4 (2024), pp. 1452–1466. DOI: 10.1109/TCCN.2024.3373624.

25. Baolin Chong, Hancheng Lu, **Y. Chen**, Langtian Qin, and Fengqian Guo. "Achievable Sum Rate Optimization on NOMA-Aided Cell-Free Massive MIMO With Finite Blocklength Coding". *IEEE Transactions on Vehicular Technology* (2025), pp. 1–15. DOI: 10.1109/TVT.2025.3546936.

26. Langtian Qin, Hancheng Lu, **Y. Chen**, Baolin Chong, and Feng Wu. "Towards Decentralized Task Offloading and Resource Allocation in User-Centric MEC". *in IEEE Transactions on Mobile Computing* 23.12 (2024), pp. 11807–11823. DOI: 10.1109/TMC.2024.3399766.

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会议论文集

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国家发明专利

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