

保研招生介绍

2026.3

个人简介



王正

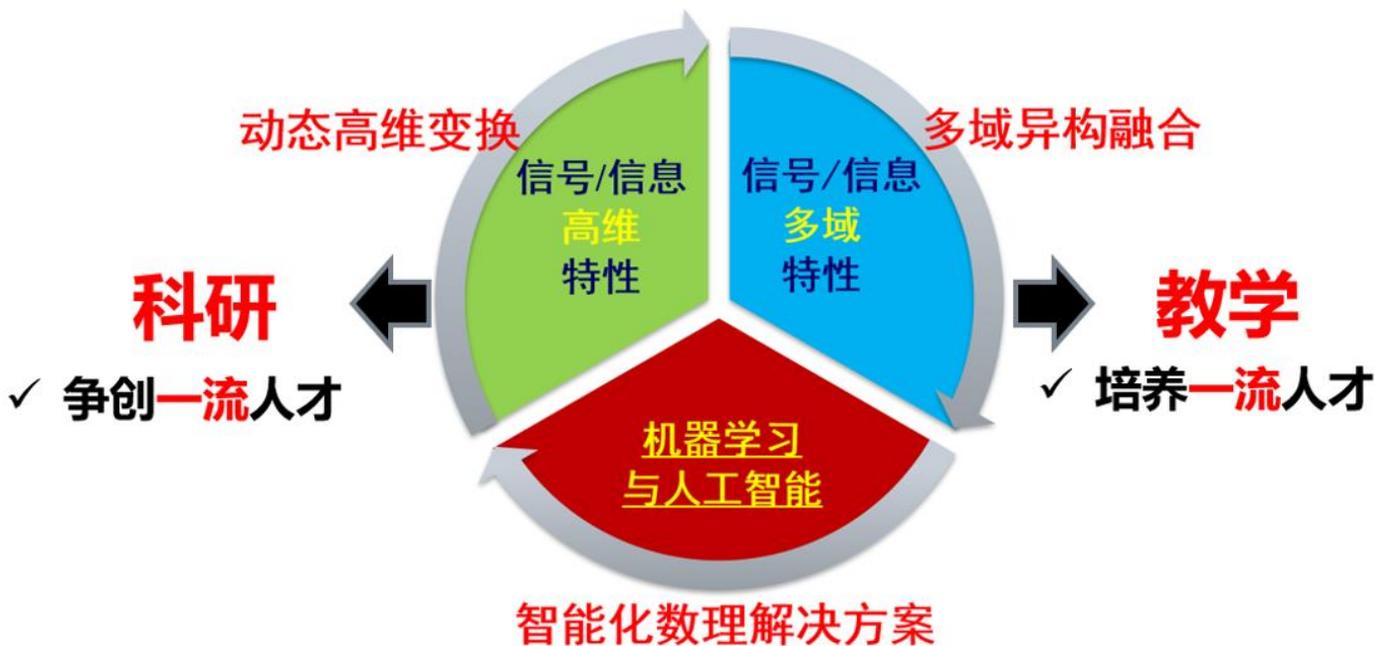
副教授，博士生导师，IEEE高级会员，江苏省双创博士

爱思唯尔中国高被引学者

2021年加入东南大学信息科学与工程学院，移动通信全国重点实验室

<https://radio.seu.edu.cn/2023/1025/c19941a469691/page.htm>

<https://seu-zheng-wang.github.io/> (Github国内网络不稳定，建议电脑端网页刷新打开)



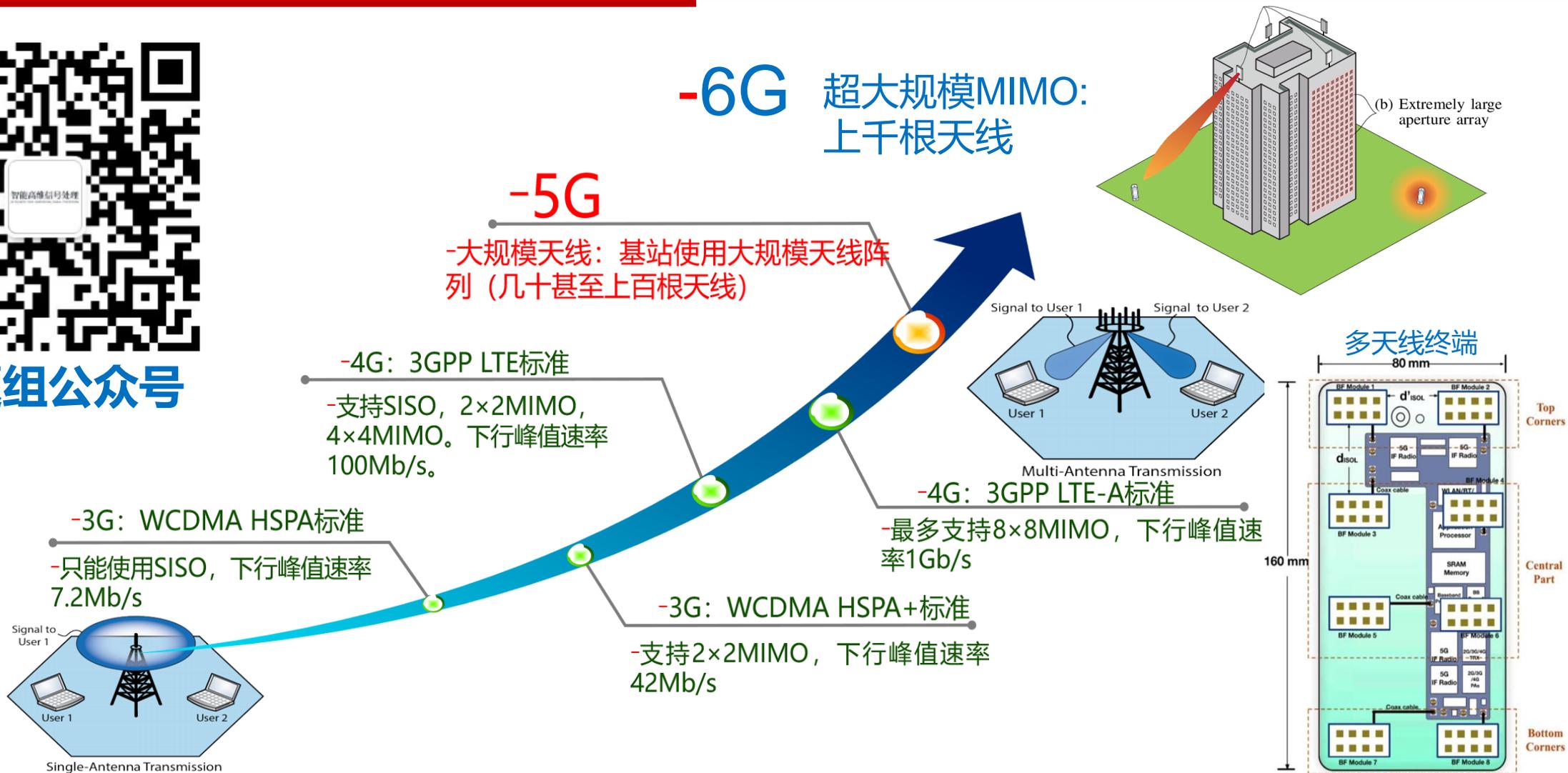
- 亲自一对一带硕士生科研
- 指导硕士生发表TSP, TWC, TCOM... (一作均为学生)
- 多名学生硕转博
- 学生培养质量上限高，下限也高
- 科研体验好，不签到打卡，假期有保证
- 找工作准备时间充分，有保障
- 就业多元化、质量高
-

研 究 内 容

智能通信核心技术：6G、AI通信、超大规模MIMO



课题组公众号



MIMO系统作为一种基础性的通信核心技术，将会一直延续下去，4G,5G,6G,7G.....

研究风格

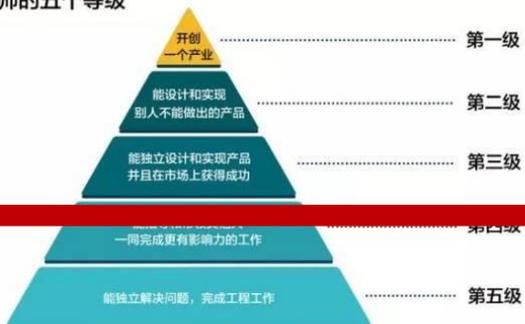
研究风格

身处科研一线，和博士硕士的科研是层次不同的平行线

更好的科研生态



工程师的五个等级



更多的选择，更好的就业

逐渐锻炼升级

深造
企业
研究所
事业单位
.....

做自己的科研
(五分耕耘一分收获)

同时

亲自一对一指导学生科研
(一分耕耘一分收获)

不停探索，保持自己的学术竞争力



以人为本的高质量指导和培养



培养的学生

2020保研学生：硕士两篇Trans文章

Journals & Magazines > IEEE Transactions on Wireless... > Early Access

Generalizing Projected Gradient Descent for Deep-Learning-Aided Massive MIMO Detection

Publisher: IEEE Cite This PDF

Lanxin He; Zheng Wang; Shaoshi Yang; Tao Liu; Yongming Huang All Authors

投稿IEEE Trans. on Wireless Communications

Conferences > 2021 IEEE 94th Vehicular Tech...

Recurrent Sparse MIMO Detection Network Based on Modified Projected Gradient Descent Method

Publisher: IEEE Cite This PDF

Lanxin He; Tao Liu; Zheng Wang All Authors

投稿IEEE VTC国际会议



大四保研

研一

发表

发表

Journals & Magazines > IEEE Transactions on Vehicula... > Early Access

Favorable-Propagation-Exploited Variational Inference for Massive MIMO Detection

Publisher: IEEE Cite This PDF

Lanxin He; Zheng Wang; Zhen Gao; Lei Liu; Yongming Huang All Authors

投稿IEEE Trans. on Vehicular Technology

研三

Journals & Magazines > IEEE Transactions on Signal P... > Volume: 70

Randomized Iterative Methods for Low-Complexity Large-Scale MIMO Detection

Publisher: IEEE Cite This PDF

Zheng Wang; Robert M. Gower; Yili Xia; Lanxin He; Yongming Huang All Authors

研二

A New Low-Complexity WMMSE Algorithm for Downlink Massive MIMO Systems

Publisher: IEEE Cite This PDF

Ningxin Zhou; Zheng Wang; Lanxin He

[2024届] 贺岚昕, 工学硕士(南航期间招收)(Master of Engineering), 跟随王正老师继续读博(东南大学), PhD supervised by Dr. Zheng Wang in Southeast University

▼代表性成果

[J1] L. He, Z. Wang, S. Yang, T. Liu and Y. Huang, "Generalizing Projected Gradient Descent for Deep-Learning-Aided Massive MIMO Detection," *IEEE Transactions on Wireless Communications*, vol. 23, no. 3, pp. 1827-1839, March 2024.

[J2] L. He, Z. Wang, Z. Gao, L. Liu and Y. Huang, "Favorable-Propagation-Exploited Variational Inference for Massive MIMO Detection," *IEEE Transactions on Vehicular Technology*, vol. 73, no. 9, pp. 14074-14079, Sept. 2024.

[C1] L. He, T. Liu and Z. Wang, "Recurrent Sparse MIMO Detection Network Based on Modified Projected Gradient Descent Method," *IEEE Vehicular Technology Conference (VTC2021-Fall)*, Norman, OK, USA, 2021, pp. 1-5.

[C2] L. He, Z. Wang and Y. Huang, "A Massive MIMO Sampling Detection Strategy Based on Denoising Diffusion Model," *International Wireless Communications and Mobile Computing (IWCMC)*, Ayia Napa, Cyprus, 2024, pp. 1443-1448.

[J3] Z. Wang, R. M. Gower, Y. Xia, L. He and Y. Huang, "Randomized Iterative Methods for Low-Complexity Large-Scale MIMO Detection," *IEEE Transactions on Signal Processing*, vol. 70, pp. 2934-2949, 2022.

选择课题组内发表 继续攻读博士



2021保研学生（东南第一届）：硕士人均大于一篇Letter文章

Conferences > 2022 14th International Confe...

A New Low-Complexity WMMSE Algorithm for Downlink Massive MIMO Systems

Publisher: IEEE

Cite This

PDF

Ningxin Zhou; Zheng Wang; Lanxin He; Yang Huang All Authors



Conferences > 2023 IEEE 97th Vehicular Tech...

Ordered Iterative Methods for Low-Complexity Massive MIMO Detection

Publisher: IEEE

Cite This

PDF

IEEE VTC国际会议研一发表

Beilei Gong; Ningxin Zhou; Zheng Wang All Authors

WCSP国际会议研一发表

- 【2025届】周宁欣，工学硕士(Master of Engineering)，就职于小米(上海) Xiaomi

▼ 代表性成果

[J1] N. Zhou, Z. Wang, Q. Shi, W. Xu and Y. Huang, "Model-driven Distributed WMMSE for Downlink Massive MIMO Systems," **IEEE Wireless Communications Letters**, early access, 2025.

[J2] N. Zhou, Z. Wang, C. Ma, Y. Huang and Q. Shi, "Distributed Precoder Based on Weighted MMSE With Low Complexity for Massive MIMO Systems," **IEEE Communications Letters**, vol. 29, no. 3, pp. 482-486, March 2025.

[C1] N. Zhou, Z. Wang, L. He and Y. Huang, "A New Low-Complexity WMMSE Algorithm for Downlink Massive MIMO Systems," **International Conference on Wireless Communications and Signal Processing (WCSP)**, Nanjing, China, 2022, pp. 1096-1101.

- 【2025届】龚蓓蕾，工学硕士(Master of Engineering)，就职于国家电网(上海) State Grid

▼ 代表性成果

[J1] B. Gong, Q. Chen, Z. Wang, W. Xu and Y. Huang, "Feedback Interference Cancellation Detection for quantized Massive MIMO Systems," **IEEE Wireless Communications Letters**, early access, doi: 10.1109/LWC.2025.3588528.

[C1] B. Gong, N. Zhou and Z. Wang, "Ordered Iterative Methods for Low-Complexity Massive MIMO Detection," **IEEE Vehicular Technology Conference (VTC2023-Spring)**, Florence, Italy, 2023, pp. 1-5.

- 【2025届】高逸群，工学硕士(Master of Engineering)，就职于普源精电(苏州) RIGOL Technologies

▼ 代表性成果

[J1] Y. Gao, Q. Chen, L. He, Z. Wang, J. Zhang, Y. Huang, Y. Gao, and Z. Xu, "Artificial Intelligence Enabled Joint Channel Estimation and Signal Detection for Massive MIMO Systems," **Chinese Journal of Electronics**, early access.

[C1] Y. Gao, H. Zhu, Z. Wang and Z. Gao, "Recursive Joint Channel Estimation and Signal Detection for Massive MIMO Systems," **IEEE INFOCOM 2025**, early access.

没拿校优秀论文的原因是因为没提前申请

毕业论文

盲审双90+

校优秀论文

校优秀论文



考研学生

2022&2023保研学生:人均大于一篇Trans文章

Journals & Magazines > IEEE Transactions on Vehicula... > Early Access

General Recursive Least Square Algorithm For Distributed Detection In Massive MIMO IEEE Trans. on Vehicular Technology

Publisher: IEEE Cite This PDF

课题组内硕转博

Qiqiang Chen; Zheng Wang; Cong Ma; Xiaoming Dai; Derrick Wing Kwan Ng All Authors

Conferences > 2023 IEEE 23rd International ...

IEEE ICCT国际会议研一发表

Energy Efficiency Optimization in Cell-Free Massive MIMO With Normalized Conjugate Beamforming

Publisher: IEEE Cite This PDF



Bin Yan; Ningxin Zhou; Zheng Wang All Authors

课题组内硕转博

Conferences > 2023 IEEE 23rd International ...

A Low-Complexity Gaussian Approximate Message Passing Detection Algorithm For Massive MIMO With High Order Modulation

Publisher: IEEE Cite This PDF

IEEE ICCT国际会议研一发表

He Zhu; Beilei Gong; Zheng Wang All Authors

Conferences > 2024 International Wireless C...

Efficient Joint Hybrid Precoding And Analog Combining Scheme For Massive MIMO Systems

Publisher: IEEE Cite This PDF

IWCMC国际会议研一发表

Yuanli Ma; Qiqiang Chen; Bin Yan; Zheng Wang; Lanxin He All Authors

287 Full Text Views



科研为主，项目为辅
快速入门，自由翱翔

该五位同学目前期刊论文成果(截止2026.02.28)

- 共计投稿8篇Trans (3 TWC, 1 TSP, 1 TCOM, 1 TVT) 和 2 篇WCL
- 已中稿6篇 (TVT, TWCx2,WCL,TSP,TCOM)
- 修改中2篇 (TWC, WCL)

Conferences > 2025 IEEE Wireless Communicat...

An Efficient NS-ADMM Detection for Uplink MIMO-ISAC Systems

Publisher: IEEE Cite This PDF

IEEE WCNC国际会议研一发表

Jian Wang; Qiqiang Chen; Zheng Wang; Wenbing Fan All Authors

96 Full Text Views



2024保研保研学生：一如既往研一发高水平文章



- **[2025.10]** Paper of Yunjie Chen was accepted by IEEE ICCT 2025(陈蕴杰(研一，2025级)论文被IEEE ICCT录用) [\[PDF\]](#) [\[PPT\]](#)
- **[2025.10]** Paper of Kaijie Zeng was accepted by IEEE ICCT 2025, and was conferred the Best Oral Presentation Award for his outstanding delivery.(曾凯杰(研一，2025级)论文被IEEE ICCT录用，并在会场报告中取得了最佳口语展示奖) [\[PDF\]](#) [\[PPT\]](#)
- **[2026.01]** Paper of Yuhao Zhu was accepted by IEEE ICC 2026(朱玉浩(研一，2025级)论文被IEEE ICC录用)
- **[2026.01]** Paper of Xuanxiang Hu was accepted by IEEE WCNC 2026(胡铨祥(研一，2025级)论文被IEEE WCNC录用)
- 赵雨欢 (研一) 文章投稿IEEE VTC2026, 审稿中

准备Trans中

准备Trans中

准备Trans中

核 心 优 势

学生培养核心优势

- 培养重心前置 → 形成先发优势，为后续发展打基础（亲自带）
- 亲自1对1指导 → 拔高上限，托举下限
- 收获有预期 → “一分耕耘一分收获”的科研
- 东西出的快 → 100%研一发表高水平论文
- 成果有保障 → 100%学生本人均署名第一作者
- 交流机会多 → 出国开会，交流学习
- 时间灵活，假期有保证 → 无打卡、无签到、个人安排工作时间
- 线上组会 → 灵活高效
- 兴趣驱动，自由度高 → 聚焦前沿热点
- 组内氛围和谐，团建活动丰富 → 热爱生活，互帮互助，经常自发活动
- 找工作准备时间充分，有保障 → 科研好，积累好，能力强，机会多
- 信息开放，无壁垒 → 有效反馈机制，双向选择

快速成长



发展多元



学生培养整体质量高，发展上限高，下限也高



欢迎大三保研学生提前联系~



“人才无需管理，只需要有共同理想”

—— 史蒂夫·乔布斯

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