

# RUIZHE PANG

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| RESEARCH INTERESTS  | My research interests lie at the intersection of audio signal processing and deep learning. I am particularly interested in developing neural models for speech enhancement, denoising, and high-quality audio synthesis, bridging theoretical insights with practical real-world applications.  |                                      |
| EDUCATION           | <b>Southern University of Science and Technology</b><br><i>B.Eng., Department of Computer Science and Engineering</i> <ul style="list-style-type: none"><li>GPA: 3.82/4.00</li></ul>   | Shenzhen, China<br>2023.09 – Present |
| PUBLICATIONS        | <ol style="list-style-type: none"><li>Z.-Q. Wang, <b>R. Pang</b>, “Mixture to Beamformed Mixture: Leveraging Beamformed Mixture as Weak-Supervision for Speech Enhancement and Noise-Robust ASR,” in <i>Proc. ICASSP</i>, 2026.</li><li>J. Sun, S. He, <b>R. Pang</b>, Z.-Q. Wang, “Neural Forward Filtering for Speaker-Image Separation,” in <i>Proc. ICASSP</i>, 2026.</li></ol>                              |                                      |
| RESEARCH EXPERIENCE | <b>SUSTech Audio Intelligence Lab</b>   Shenzhen, China <ul style="list-style-type: none"><li>Participated in research on speech enhancement and multi-channel audio processing.</li><li>Assisted in experiments, data processing, and manuscript writing for publication.</li><li>Collaborated with lab members on model development and evaluation, contributing to papers submitted to IEEE ICASSP.</li></ul> | 2024.09 - Present                    |
| AWARDS              | <ul style="list-style-type: none"><li><b>Honorable Mention</b>, Mathematical Contest In Modeling</li><li><b>First Prize</b>, Guangdong Provincial Mathematical Contest in Modeling</li></ul>   | 2025.05<br>2024.10                   |
| SKILLS              | <b>Languages:</b> Chinese, English.<br><b>Programming:</b> Python, C++, MATLAB.<br><b>Frameworks:</b> PyTorch, PyTorch Lightning, Huggingface,   |                                      |