

## Post-Doc/PhD Positions at University of Missouri, Kansas City (UMKC), USA

### Opening Description:

With recent funding from NSF, Air Force and industry research labs like Qualcomm and Meta/Facebook, the *Multimedia Computing & Communication Lab* (<http://l.web.umkc.edu/lizhu>) at UMKC now has 2 PhD and 1 Post-Doc openings with full financial support (including tuition, health insurance, stipends and conference travels) for the following topics:

- Immersive/VR content capture, compression and low latency communication, especially point cloud, Gaussian Splatting capture and coding. MCC Lab is a major player in this topic area, with multiple NSF and Qualcomm projects on this.
- Remote sensing/SAR Imaging and remote sensing data compression, especially complex valued SAR image compression, both learned as well as traditional signal compression approaches, signal/feature recovery from compression for downstream vision tasks and applications.
- Generative methods in compression and image recovery from compression, light weight deblocking filter, GFVC, new diffusion method with SVD decomposed image representation and optimization on Stiefel/Grassmann manifolds.

### Candidates Expectation:

Ideal candidates should have MS degree in CS/EE, and have solid programming skills in C/C++, Python and Matlab. Industrial experiences are highly valued. Desired course work including Linear Algebra, Probability & Statistics, Numerical Optimization. Self-motivating and have a strong desire to do cutting edge research and publish.

UMKC is an R1 research university sitting in the middle of American heartland, Kansas City is a sister city of Xian and the weather is also moderate and similar. MCC lab is one of leading players in learned as well as signal processing/optimization based compression solutions for 3D, high dimensional, and complex valued signals/images, and our alumni are well placed in academia (海优/full prof at USTC, Associate Prof at NUIST, AP at Guangdong Medical Univ) and researchers in industry (Qualcomm, Bytedance, Dolby Lab) on US side.

### Contact Info:

Interested students please send me a short CV, a copy of your transcript, publications if any, and GRE/TOEFL/IELTS scores to:

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### Acknowledgement:

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