

# Jingwei Guo

✉ Jingwei.Guo@liverpool.ac.uk

🏠 <https://jingweio.github.io>

EDUCATION	<b>University of Liverpool</b> Ph.D. in Electrical Engineering and Electronics	Sep. 2019 - Present Advisor: Kaizhu Huang
	<b>Xi'an Jiaotong-Liverpool University</b> B.S. in Applied Mathematics	Aug. 2014 - Jun. 2018 GPA (WES): 3.86/4.00
RESEARCH INTERESTS	My research focuses on Graph Neural Networks, with a specific emphasis on addressing their challenges, including combating oversmoothing, handling graph heterophily, and capturing long-range dependencies.	
PUBLICATIONS	<i>Graph Neural Networks with Diverse Spectral Filtering</i> – <b>Jingwei Guo</b> , Kaizhu Huang, Xinping Yi, Rui Zhang. – Proceedings of the ACM Web Conference (WWW), 2023: 306-316.	
	<i>Learning Disentangled Graph Convolutional Networks Locally and Globally</i> – <b>Jingwei Guo</b> , Kaizhu Huang, Xinping Yi, Rui Zhang. – IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2022.	
	<i>Adaptive Active Contour Model based Automatic Tongue Image Segmentation</i> – <b>Jingwei Guo</b> , Yikang Yang, Qingwei Wu, Jionglong Su, Fei Ma. – The 9th International Congress on Image and Signal Processing, BioMedical Engineering and Informatics (CISP-BMEI), 2016.	
MANUSCRIPTS	<i>Rethinking Spectral Graph Neural Networks with Spatially Adaptive Filtering</i> – <b>Jingwei Guo</b> , Kaizhu Huang, Xinping Yi, Zixian Su, Rui Zhang. – Under review, 2023.	
	<i>ES-GNN: Generalizing Graph Neural Networks Beyond Homophily with Edge Splitting</i> – <b>Jingwei Guo</b> , Kaizhu Huang, Rui Zhang, Xinping Yi. – Under review, 2022.	
	<i>Unraveling Batch Normalization for Realistic Test-Time Adaptation</i> – Zixian Su, <b>Jingwei Guo</b> , Kai Yao, Xi Yang, Qiufeng Wang, Kaizhu Huang. – Under review, 2023.	
EXPERIENCE	<b>Teaching Assistant</b> <ul style="list-style-type: none"><li>• CPT206: Computer Programming for Financial Mathematics</li><li>• CPT403: Object Oriented Programming</li><li>• INT104: Artificial Intelligence</li><li>• INT202: Complexity of Algorithms Introduction</li><li>• CPT105: Introduction to Programming in Java</li></ul>	Spring 2023 Autumn 2022 Spring 2021 Spring 2021 Autumn 2020
	<b>Research Assistant</b> <ul style="list-style-type: none"><li>• Sano Medical Laboratories, Inc. - <i>XJTLU</i></li><li>• Summer Undergraduate Research Fellowship - <i>XJTLU</i>.</li></ul>	Sep. 2018 - Feb. 2019 Summer 2016 & 2017
ACADEMIA SERVICES	<b>Reviewer for Journals</b> <ul style="list-style-type: none"><li>• TNNLS, Neural Networks, Neurocomputing, Cognitive Computation</li></ul>	
TECHNICAL SKILLS	<b>Programming Languages:</b> Python, Java, Matlab <b>Deep Learning Libraries:</b> PyTorch, TensorFlow, DGL, PyG	