

# Guodong DU

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## RESEARCH INTEREST

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- **Knowledge Enhancement:** Knowledge Fusion and Alignment of LLMs and MLLMs.
- **Knowledge Efficiency:** Knowledge Distillation and Compression of LLMs and MLLMs.
- **Others:** Spiking Neural Network, Low Level Computer Vision.

## EDUCATION

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<b>University of Electronic Science and Technology of China (UESTC)</b> Bachelor's degree program, GPA: 3.90/4.0, Rank: 12/550 (top 3%)	<b>Chengdu, China</b> Aug.2014-Jun.2018
<b>City University of Hong kong (CityU)</b> Non-degree Undergraduate Exchange, GPA:4.0/5.0	<b>Hongkong, China</b> Aug.2016-Jan.2017

## SELECTED PUBLICATION

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1. **Guodong Du**, Junlin Lee, Jing Li, Sim Kuan Goh, Ho-Kin Tang, Min Zhang.  
*Parameter Competition Balancing for Model Merging.*  
Conference on Neural Information Processing Systems (**NeurIPS 2024**).
2. **Guodong Du**, Jing Li, Sim Kuan Goh, Ho-Kin Tang.  
*Knowledge Fusion By Evolving Weights of Language Models.*  
Annual Meeting of the Association for Computational Linguistics (**ACL 2024 Findings**).
3. **Guodong Du**, Runhua Jiang, Sim Kuan Goh, Ho-Kin Tang.  
*Impacts of Darwinian Evolution on Pre-trained Deep Neural Networks.*  
Conference on Systems, Man, and Cybernetics (**IEEE SMC 2024**).

## RESEARCH EXPERIENCE

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<b>Knowledge and Language Computing Lab, HITSZ</b> <i>Research Assistant</i> <ul style="list-style-type: none"><li>• Knowledge fusion, editing and preference learning.</li><li>• Multi-modality LLM knowledge fusion and decouple.</li></ul>	<b>Supervisor: Prof. Jing Li</b> Mar.2023 - Sep.2024
<b>Learning and Vision Lab, ECE, NUS</b> <i>Research Intern</i> <ul style="list-style-type: none"><li>• Low-level computer vision.</li><li>• Efficient and lightweight model architecture.</li></ul>	<b>Supervisor: Prof. Jiashi Feng</b> Aug.2018 - Sep.2021
<b>Huawei Noah's Ark Lab, Shenzhen, China</b> <i>Research Intern</i> <ul style="list-style-type: none"><li>• Video super-resolution, optical flow.</li><li>• Image signal processing(ISP).</li></ul>	<b>Mentor: Xueyi Zou</b> Aug.2020 - Apr.2021

## WORK EXPERIENCE

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### **BioMind, Singapore**

*Machine Learning Researcher*

**Advisor: Prof. Jiashi Feng**

*Dec.2018 - Aug.2019*

- Tumor image segmentation, biopsy detection.
- Face anti-spoofing, pose estimation.
- Clinical decision support system, video analysis for Pakinsen-plus.

### **YoueData, Chengdu, China**

*Software Engineer*

**Advisor: Prof. Lixin Duan**

*Jan.2018 - Jun.2018*

- Recommendation algorithms, collaborative filtering algorithms.
- Java development.

## AWARDS AND CERTIFICATES

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- 2021.10, 3rd Place Award in NTIRE 2021 Challenge on Video Super-resolution Track 1 Spatial. (New Trends in Image Restoration and Enhancement Workshop, CVPR2021);
- 2017.09, National Encouragement scholarship;
- 2016.05, Honorable Award in MCM (The Mathematical Contest in Modeling);
- 2016.09, National Encouragement scholarship;
- 2015.09, National scholarship;

## ACADEMIC SERVICES

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Conference Reviewer: ICLR 24-25, NeurIPS 23-24, ACL 24, etc.

Teaching Assistant: EE5907 Pattern Recognition (NUS ECE)