XIAO SONG

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INTEREST

Computer Vision, Natural Language Processing, Causality, and Biomedicine.

EDUCATIONS

Nanjing University   Sep 2024 - present

Doctor of Philosophy, Computer Science and Technology

Advised by: Prof. Caifeng Shan (main advisor) & Assi. Prof. Chaoyou Fu

Beijing University of Technology   Sep 2020 - Jun 2023

Master of Engineering, Computer Science and Technology

Advised by: Assoc. Prof. Xiaodan Zhang (main advisor)) & Prof. Junzhong Ji

University of Jinan   Sep 2016 - Jun 2020

Bachelor of Engineering, Computer Science and

Technology Advised by: Assoc. Prof. Lixin Du

WORK EXPERIENCE

Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences   Jul 2023 - Jul 2024

Full-time Research Assistant, Shenzhen

PI: Assoc. Prof. Ruxin Wang

The University of Hong Kong   Aug 2022 - Oct 2022

Research Internship, Remote

Advised by: Assi. Prof. Liangqiong Qu

HONORS & REWARDS

1. Graduate Science and Technology Innovation Award (Excellent Award), Beijing University of Technology, 2024.
2. Excellent Master's Thesis (3 A grades given by anonymous reviewers), Beijing University of Technology, 2023.
3. Outstanding Graduates, Beijing University of Technology, 2023.
4. Graduate Science and Technology Innovation Award (First Prize), Beijing University of Technology, 2023.
5. Academic Excellence Scholarship (Second-Class, Top 10%), Beijing University of Technology, 2020-2021.
6. Outstanding Graduates, University of Jinan, 2020.
7. Mathematics Competition of Chinese College Students (First Prize), Chinese Mathematical Society, 2019.

PUBLICATIONS

1. **Rethinking Radiology Report Generation via Causal Inspired Counterfactual Augmentation**.
   Xiao Song, Jiafan Liu, Yun Li, Yan Liu, Wenbin Lei, Ruxin Wang.
   The 15th ACM BCB, 2024, Oral.

2. **Multi-scale Superpixel based Hierarchical Attention Model for Brain CT Classification**.
   Xiao Song, Xiaodan Zhang, Junzhong Ji, Ying Liu.
   J. Vis. Commun. Image R. (JVCIR), 2023.

3. **Cross-modal Contrastive Attention Model for Medical Report Generation**.
   Xiao Song, Xiaodan Zhang, Junzhong Ji, Ying Liu, Pengxu Wei.
   The 29th COLING, 2022, Oral. (a top NLP conference)

4. **Multi-scale Superpixel based Fusion Network for Brain CT Classification**.
   Junzhong Ji, Menglong Zhang, <u>Xiao Song</u>, Xiaodan Zhang.
   China Sciencepaper, 2022.

PATENTS

1. <u>宋晓(Xiao Song)</u>，王如心. 基于反事实数据增强的放射学报告生成方法. CN202311704996.X

2. 张晓丹，<u>宋晓(Xiao Song)</u>，冀俊忠. 一种基于跨模态对比注意力机制的医学报告自动生成方法. CN202210563429.6

SKILLS

Programing: Python, C++, C, PHP, HTML, Java, SQL.

Deep Learning Frameworks: Pytorch.