

# XIAO SONG

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## INTEREST

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

## EDUCATIONS

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### 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

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### 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

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

## PUBLICATIONS

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- 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**.
- 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.
- 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, Xiao Song, Xiaodan Zhang.

*China Sciencepaper*, 2022.

#### **PATENTS**

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1. 宋晓(Xiao Song), 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, 宋晓(Xiao Song), 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**

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

*Deep Learning Frameworks*: Pytorch.