(+86) 175-3493-3211
Beijing, China
yuxindu444@gmail.com

Yuxin DU

EDUCATION

B.S. in Computer Science and Engineering, BeiHang University (BUAA) Sep 2019 - Jul 2023

- ***GPA: 3.73/4.00****; weighted arithmetic mean of major courses:* ***90.27****.*
- ***TOEFL:103*** *(R28, L28, S20, W27); CET4; CET6.*
- *Enter the school of CS as the top* ***7%*** *of about 800 students.*
- *Scholarship for excellent studying in 2020.*
- *Partial Course Grades: Algebra 93, Mathematics Analysis 97, Basic Physics 100, Discrete Mathematics 97, Computer Organization 97, Probability and Statistics 92, C++ and C# Programming 98, Social Computing 98, Data Mining 93, Computer Networks 95, Methodology of Computer Science 94, Image Processing and Pattern Recognition 97.*

PUBLICATIONS

SegVol: Universal and Interactive Volumetric Medical Image Segmentation.
Yuxin Du, Fan Bai, Tiejun Huang, Bo Zhao
arXiv:*https://arxiv.org/abs/2311.13385*
GitHub: *https://github.com/BAAI-DCAI/SegVol* (100+ stars in a month)
Exploiting Scarce Resources for Rare Disease Diagnosis: A Multimodal Deep Learning Approach for Biliary Atresia.
Yuancheng Yang, Ya Ma, **Yuxin Du**, Luyang Jin, Yedi Wang, Luyu Liu, Zijian Zhang, Zelong Jin, Zhimin Qiu, Mao Ye, Chao Tong and Zhengrong Wang
Nature Communications (in submission)
Semantic-aligned reinforced attention model for zero-shot learning.
Zaiquan Yang, Yuqi Zhang, **Yuxin Du**, Chao Tong
Image and Vision Computing (accepted)

RESEARCH EXPERIENCES

SegVol: Universal and Interactive Volumetric Medical Image Segmentation **2023.06 - now**
Research Intern, Beijing Academy of Artificial Intelligence (BAAI)

- Propose a universal and interactive volumetric medical image segmentation model, named SegVol, as the first author.
- Invited to give a talk to the Nvidia Cambridge MONAI team about SegVol.

Multimodal analysis of Biliary Atresia based on Vision-Transformer **2022.06 - 2023.06**
Research Intern, Beihang University

- Participated in the research on computer vision analysis of gallbladder CT images, using a Transformer-based multimodal model to comprehensively process images and medical examination data from four modalities.

Noisy Learning in Video Understanding **2023.01 - 2023.06**
Research Intern, McMaster University

- Proposed a simple, end-to-end single-stage dynamic denoising algorithm that effectively suppressed modal noise and designed a multi-label guided contrastive learning strategy to further enhance the performance of the model.

Semantic-aligned Reinforced Attention Model for Zero-shot Learning **2022.05 - 2022.08**
Research Intern, Beihang University

- Implemented some new ideas of the attention component to reinforce the semantic-alignment with the guidance of the master, Zaiquan Yang.

The investigation of contrastive learning **2022.05 - 2022.07**
Research Intern, University of Adelaide

- Systematically tracked recent work in contrastive learning.