

YIHENG XIONG

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EDUCATION

Master of Informatics, Technical University of Munich 2020 - 2023

Bachelor of Software Engineering, Nanjing University 2016 - 2020

PUBLICATION

* denotes equal contribution and # denotes shared last authorship.

Y. Xiong, A. Dai. PT43D: A Probabilistic Transformer for Generating 3D Shapes from Single Highly-Ambiguous RGB Images. *Under Review* 2024.

Y. Xiong*, J. Liu*, K. Zaripova*, S. Sharifzadeh, M. Keicher#, N.Navab#. Prior-RadGraphFormer: A Prior-Knowledge-Enhanced Transformer for Generating Radiology Graphs from X-Rays. *GRAIL @ MICCAI* 2023.

[Arxiv](#) | [Paper](#) | [Code](#)

RESEARCH PROJECTS

Probabilistic 3D Shape Generation from an RGB Image 2023

Supervisor: Prof. Angela Dai *Munich, Germany*

- Introduced a multi-hypothesis synthetic data augmentation approach;
- Proposed a transformer-based autoregressive model to generate the probabilistic distribution of 3D shapes conditioned on an RGB image containing potentially highly ambiguous observations of the object.

[Thesis](#)

Structured Medical Report Generation 2022

Supervisor: Prof. Nassir Navab *Munich, Germany*

- Generated structured medical report dataset from radiology graphs labels (RadGraph);
- Proposed Structure Generation Transformer where given X-ray images the outputs are structured reports.

[Slides](#)

3D Object Detection and Relocalization in Indoor Scenes 2022

Supervisor: Prof. Matthias Nießner *Munich, Germany*

- Fine-tuned and modified VoteNet and CenterPoint to detect objects on 3RScan and ScanNet dataset;
- Re-defined 3D relocalization and conducted experiments with VoteNet and CenterPoint in 3RScan.

[Report](#)

SKILLS

Languages Python, Java, SQL, PHP, C++

Frameworks Pytorch, Tensorflow

TEACHING EXPERIENCE

Teaching Assistant 2022

Introduction to Informatics (IN8027) *Munich, Germany*