

YIHENG XIONG

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<https://xiongyiheng.github.io/>

EDUCATION

Master of Informatics, Technical University of Munich 2020 - 2023

Bachelor of Software Engineering, Nanjing University 2016 - 2020

PUBLICATIONS

* 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. *BMVC 2024*.

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

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. *MICCAI workshop 2023*.

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

RESEARCH PROJECTS

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](#)

WORKING EXPERIENCE

Research Assistant 2022

TUM 3D AI Lab *Munich, Germany*

- Developed [ScanNet200 benchmark](#);
- [iOS app](#) development based on ARKit.

Research Assistant 2021

TUM Model-based Systems and Qualitative Reasoning Group *Munich, Germany*

- Managed and configured AWS cloud server;
- Configured and developed docker images.

Software Development Intern 2019

Nanjing Weiwu Internet Technology Co., Ltd *Nanjing, China*

- Developed and maintained websites;

- Managed databases.

SKILLS

Languages Python, Java, SQL, PHP, C++, Swift
Frameworks Pytorch, Tensorflow

TEACHING EXPERIENCE

Teaching Assistant 2022
Introduction to Informatics (IN8027) *Munich, Germany*

REFERENCES

Prof. Dr. Angela Dai angela.dai@tum.de
Prof. Dr. Nassir Navab nassir.navab@tum.de