

YIHENG XIONG

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EDUCATION

Master of Informatics, Technical University of Munich Oct. 2020 - Dec. 2023
Bachelor of Software Engineering, Nanjing University Sept. 2016 - Jul. 2020

RESEARCH AND INDUSTRY EXPERIENCE

Research Intern Jan. 2024 - May 2024
TUM 3D AI Lab *Munich, Germany*

- Probabilistic 3D shape generation from a highly-ambiguous RGB image.

Research Assistant Apr. 2022 - Sept. 2022
TUM 3D AI Lab *Munich, Germany*

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

Research Assistant Apr. 2021 - Sept. 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 Sept. 2019 - Dec. 2019
Nanjing Weiwu Internet Technology Co., Ltd *Nanjing, China*

- Developed and maintained websites;
- Managed databases.

RESEARCH PROJECTS

Structured Medical Report Generation Apr. 2022 - Jul. 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 Oct. 2021 - Feb. 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](#)

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](#)

SKILLS

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

TEACHING EXPERIENCE

Teaching Assistant

Introduction to Informatics (IN8027)

Jan. 2022 - Feb. 2022

Munich, Germany