

# YIHENG XIONG

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## EDUCATION

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**Master of Informatics**, Technical University of Munich 2020 - 2023

**Bachelor of Software Engineering**, Nanjing University 2016 - 2020

## PUBLICATION

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**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. [Paper](#) | [Code](#)

## RESEARCH PROJECTS

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**Probabilistic 3D Shape Generation from an RGB Image** 2023

*Supervisor: Prof. Angela Dai* *Munich, Germany*

- Created training pairs that one image can be mapped to multiple ground-truth shapes;
- Generated the probabilistic distribution of 3D shapes conditioned on a single RGB image.

[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

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

**Frameworks** Pytorch, Tensorflow

## TEACHING EXPERIENCE

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**Teaching Assistant** 2022

Introduction to Informatics (IN8027) *Munich, Germany*