

YIHENG XIONG

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EDUCATION

Master of Informatics, Technical University of Munich 2020 - Current

Bachelor of Software Engineering, Nanjing University 2016 - 2020

PROJECTS

Structured Report Generation *Supervisor: Prof. Nassir Navab and Kamilia Zaripova*

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

3D Object Detection and Relocalization in Indoor Scenes *Supervisor: Prof. Matthias Nießner and Yujin Chen*

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.

3D Object Detection in Self-driving Cars *Supervisor: Prof. Daniel Cremers and Prof. Matthias Nießner*

Fine-tuned and modified PointNet and PointNet++ on semanticKITTI dataset; Adopted modified PointNet++ as backbone in VoteNet and fine-tuned the whole on KITTI 3D object detection dataset.

EXPERIENCE

Research Assistant Jun 2022 - Dec 2022
TUM 3D AI Lab *Munich, Germany*

- Developed ScanNet200 benchmark;
- IOS development based on ARKit.

Research Assistant May 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.

SKILLS

Languages Python, Java, SQL, PHP, Javascript, HTML, Swift
Frameworks Pytorch, Tensorflow

TEACHING EXPERIENCE

Tutor for Introduction to Informatics Jan 2022 - Feb 2022