



Yida

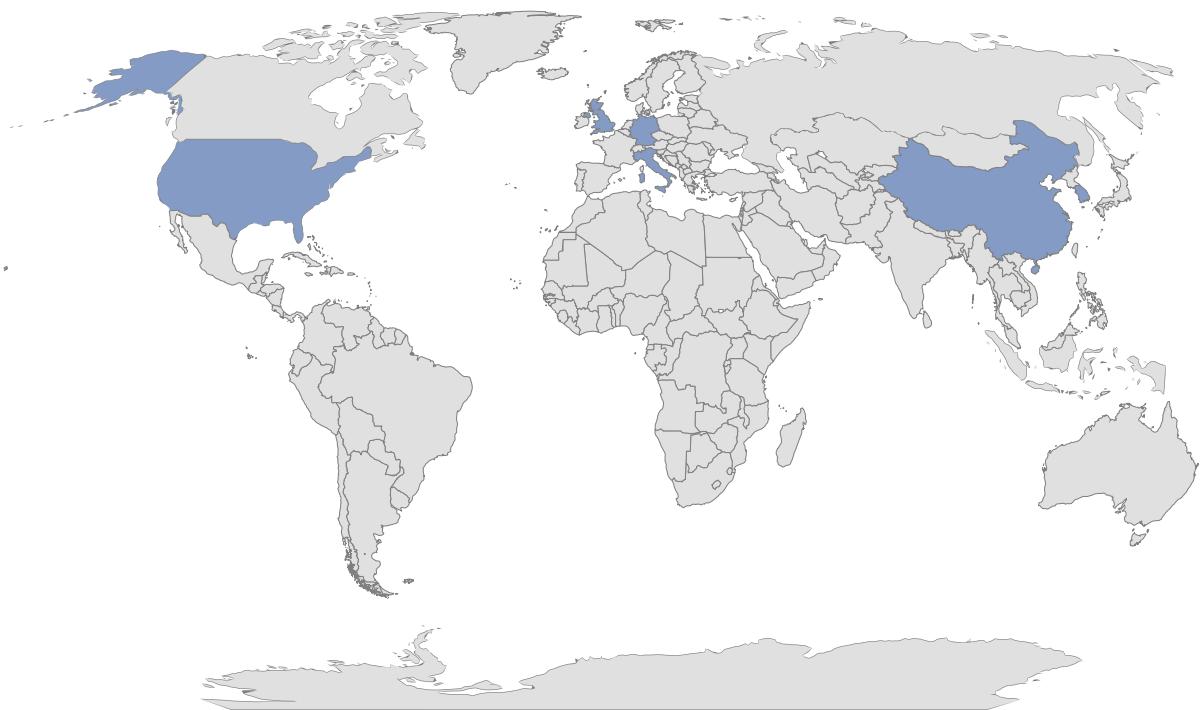
WANG



Overview

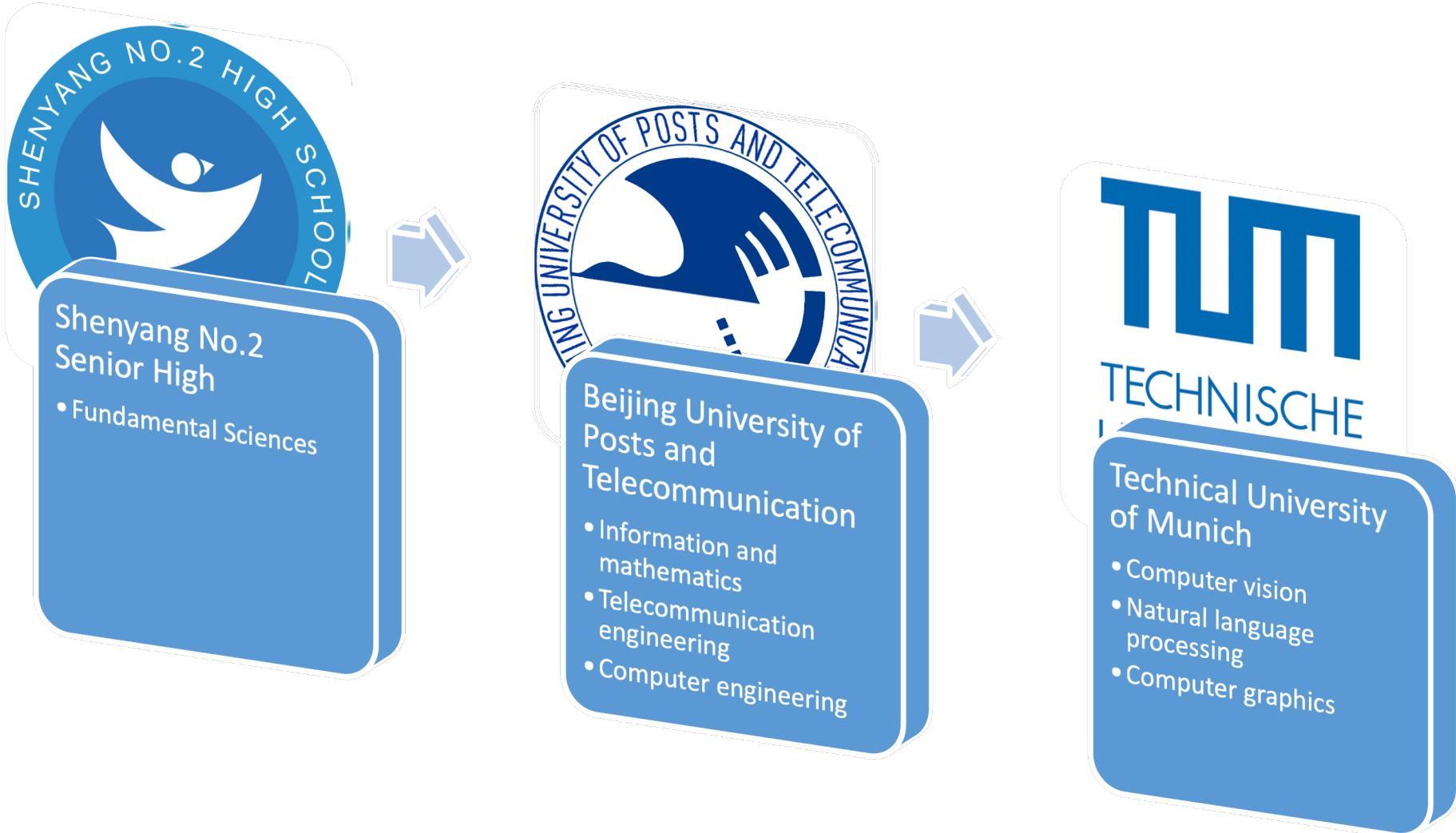
1. Academic Experience
2. Computer Science
3. Research Engineering
4. Teaching and Mentoring
5. Technical Collaborators
6. Interesting facts

Countries in which I have been working



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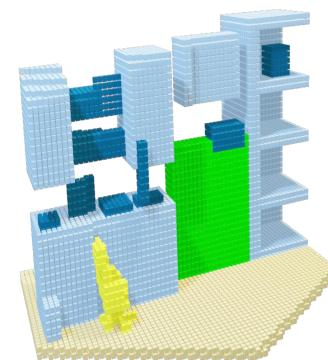
1. Academic experience



2. Computer Science – selected works from conferences

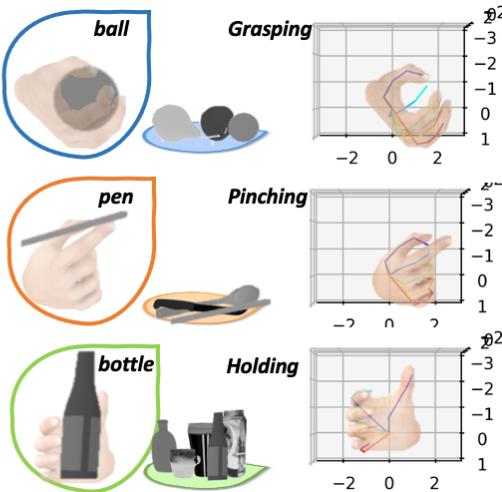
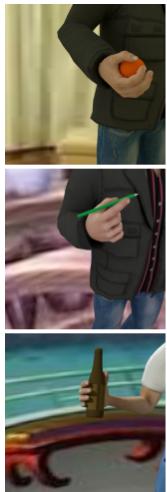
[1]. ICCV

- Seoul, S Korea
- 3D CV



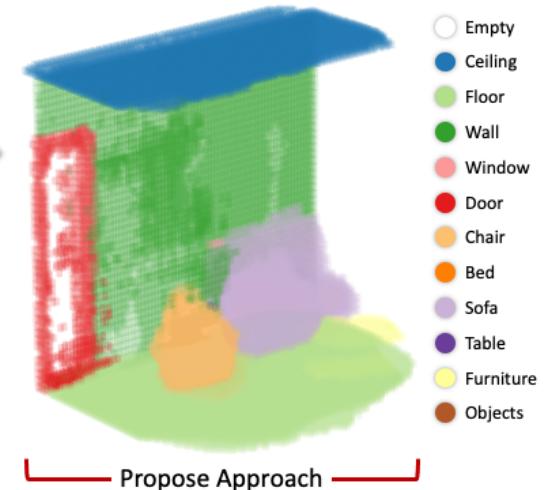
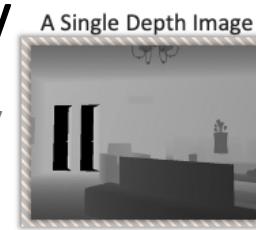
[3]. IROS

- Macau, China
- Robotics



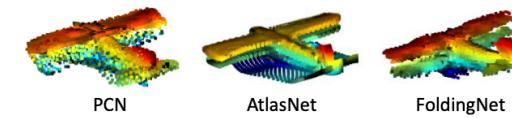
[2]. ECCV

- Verona, Italy
- 3D CV



[4]. 3DV

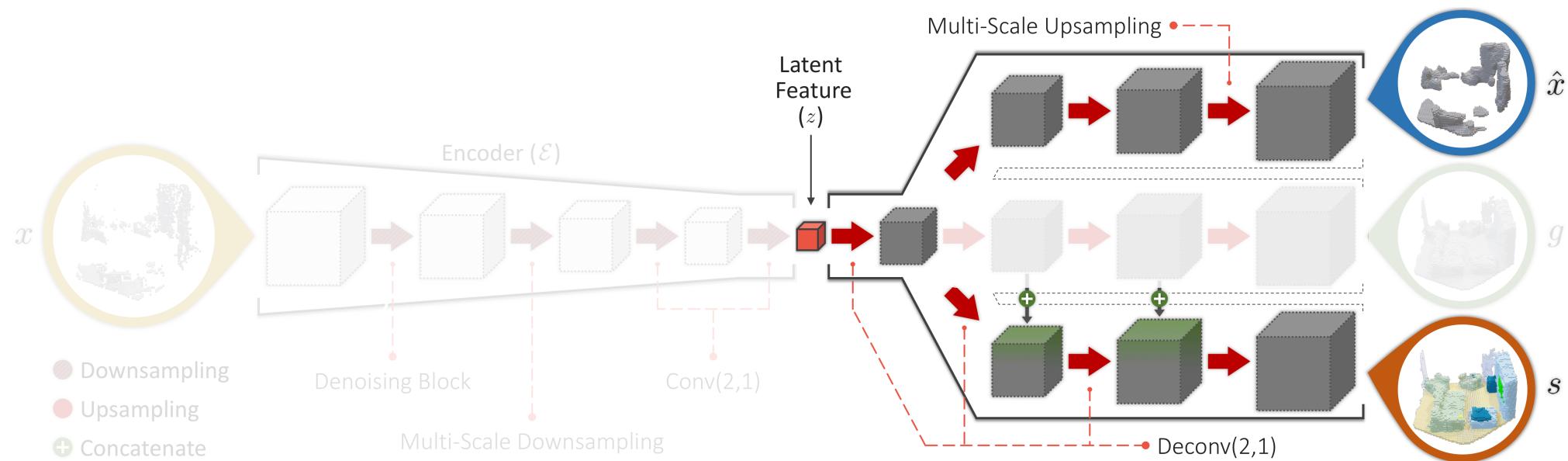
- Glasgow, Scotland
- 3D CV



SoftPoolNet
(Proposed Method)

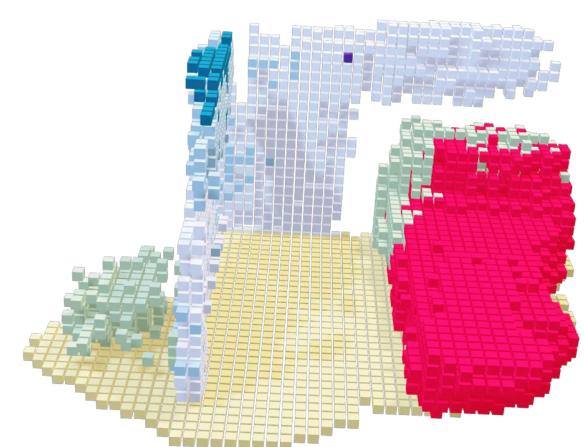
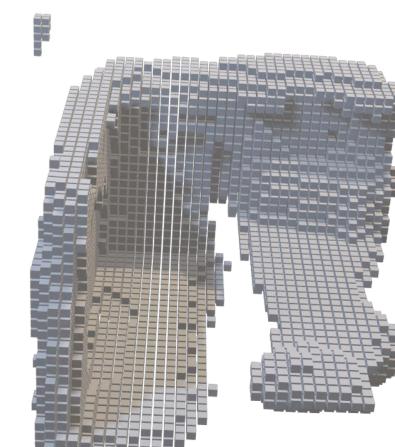
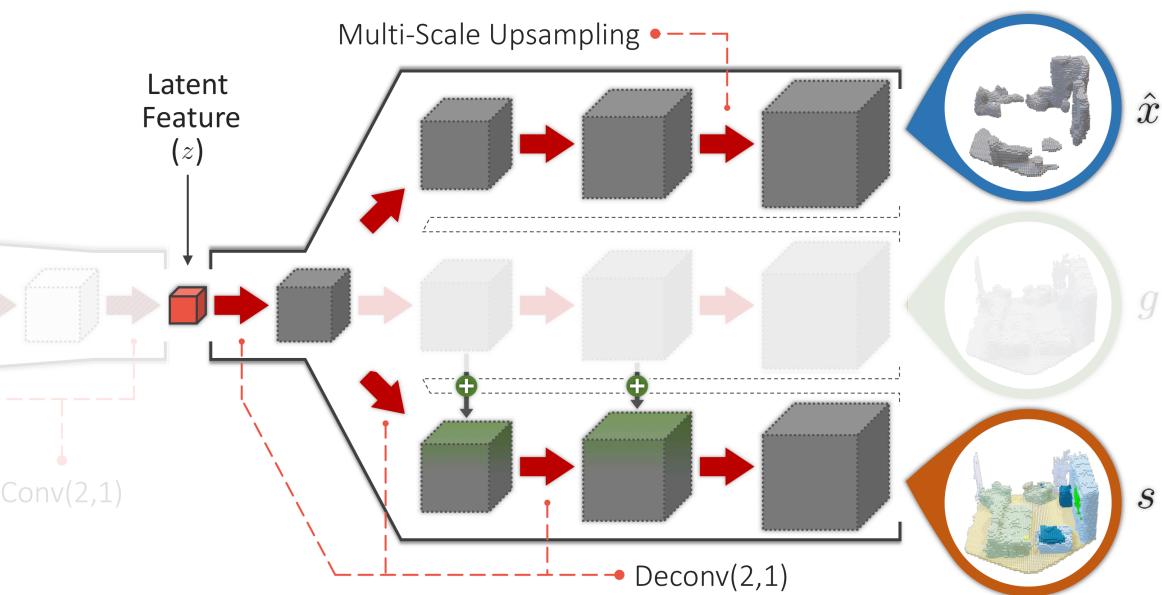
2. Computer Science – selected works from conferences

[1] ForkNet: Multi-branch Volumetric Semantic Completion from a Single Depth Image



2. Computer Science – selected works from conferences

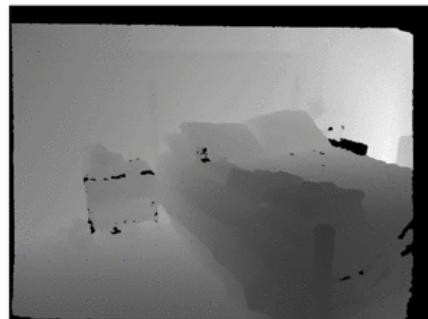
[1] ForkNet: Multi-branch Volumetric Semantic Completion from a Single Depth Image



2. Computer Science – *selected works from conferences*

[1] ForkNet: Multi-branch Volumetric Semantic Completion from a Single Depth Image

Indoor Scene Semantic Completion



Input: Single depth image

ForkNet



Ground truth

SSCNet

Object Completion



Input: Partial scan

ForkNet

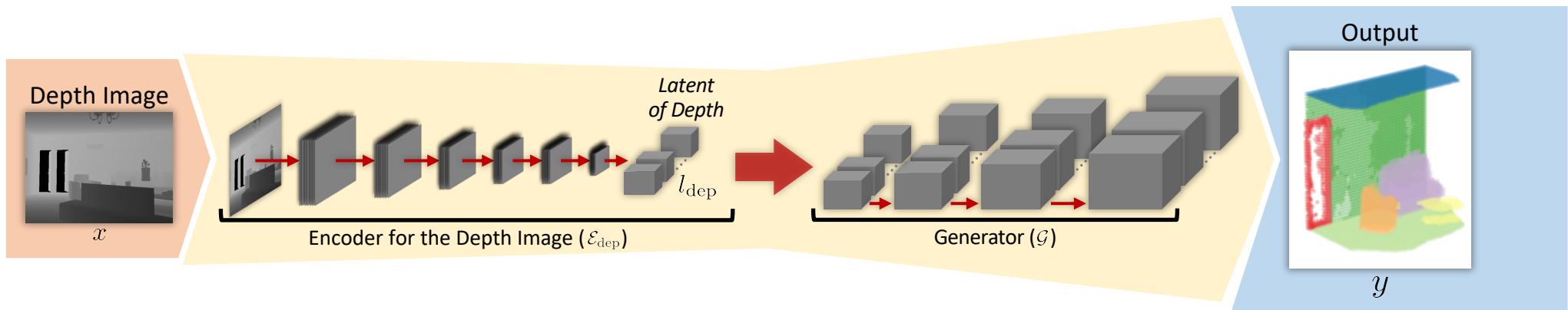


Ground truth

3D-RecGAN

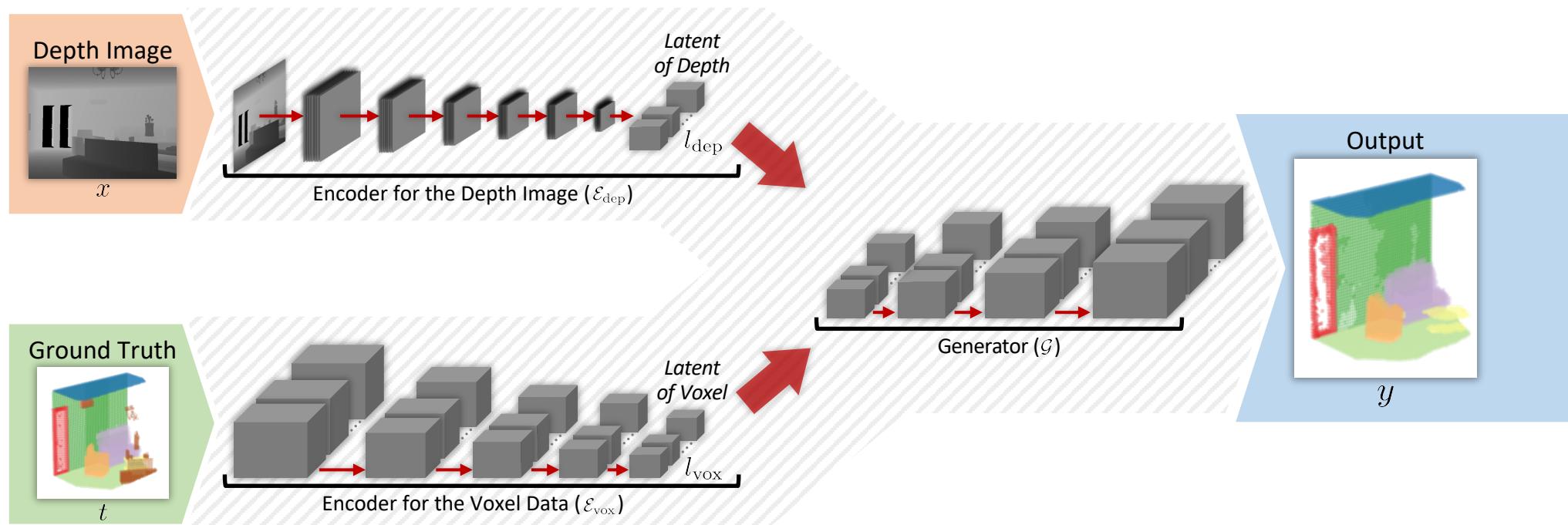
2. Computer Science – selected works from conferences

[2] Adversarial Semantic Scene Completion from a Single Depth Image



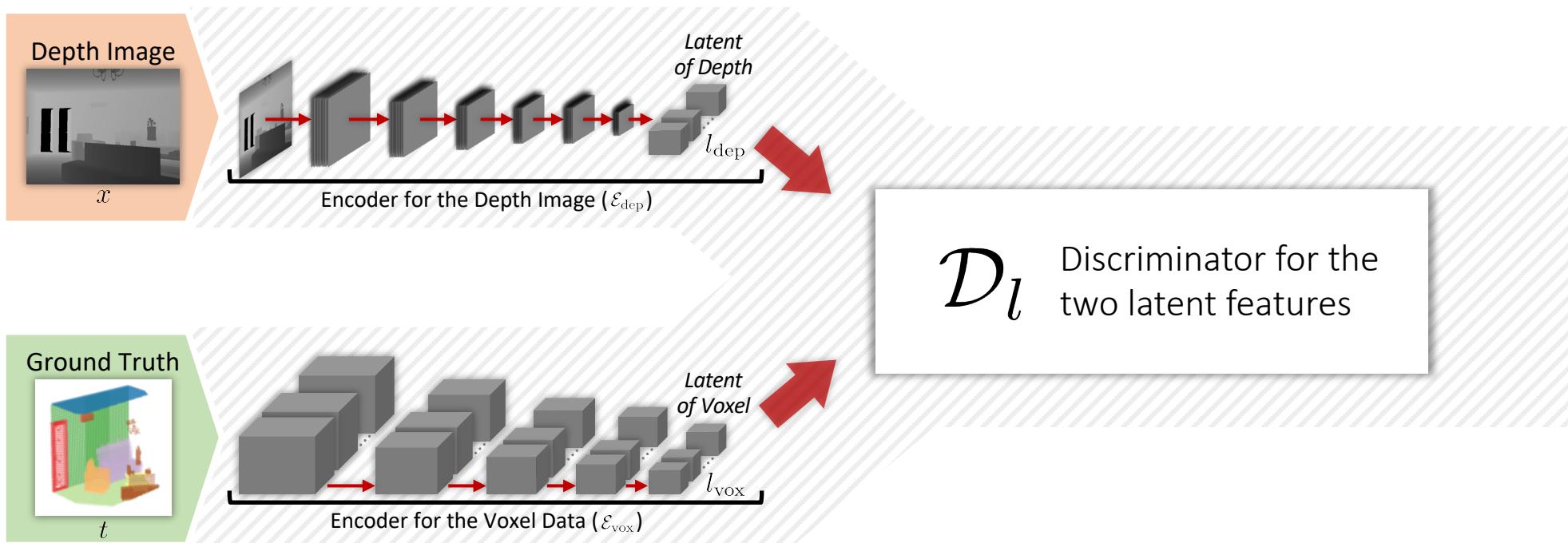
2. Computer Science – selected works from conferences

[2] Adversarial Semantic Scene Completion from a Single Depth Image



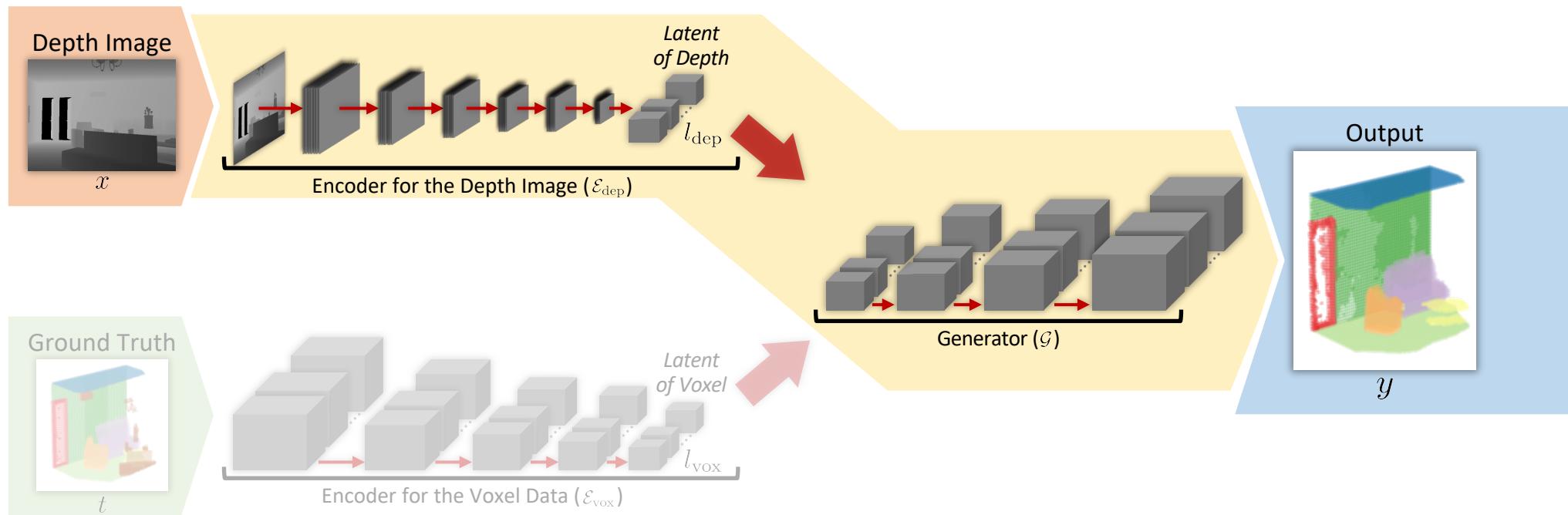
2. Computer Science – selected works from conferences

[2] Adversarial Semantic Scene Completion from a Single Depth Image



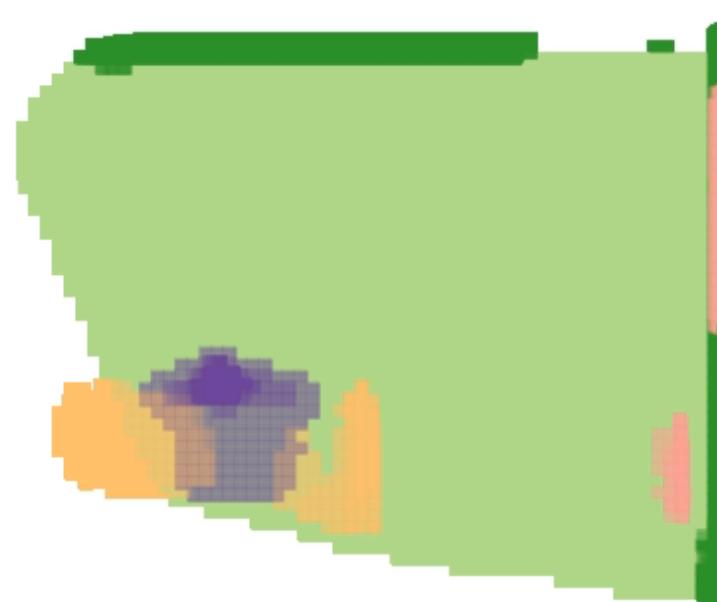
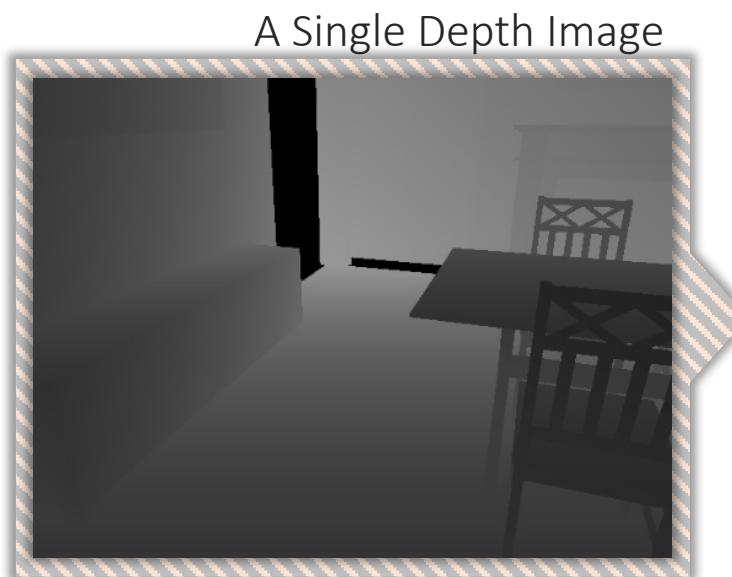
2. Computer Science – selected works from conferences

[2] Adversarial Semantic Scene Completion from a Single Depth Image



2. Computer Science – *selected works from conferences*

[2] Adversarial Semantic Scene Completion from a Single Depth Image



- Empty
- Ceiling
- Floor
- Wall
- Window
- Door
- Chair
- Bed
- Sofa
- Table
- Furniture
- Objects

3. Research Engineering – *selected works from companies*

(1) Summer of Codes

- Serving as project developer in 2015 and 2016
- Serving as project mentor in 2019

(2) Microsoft Open Source Challenge

- Global 2nd prize in (5 winners in total)
- Invited talk in Microsoft Faculty Summit 2016

(3) Simulator Design Contest

- Global 1st prize in 2013
- AIS system simulation

(4) Facebook Research Intern

- Research intern in Facebook Reality Lab for eye 3D reconstruction

3. Research Engineering – selected works from companies

(1) Google Summer of Codes

Deep Learning with Quantization for Semantic Saliency Detection

Semantic saliency detection be implemented based on CNN module. Quantization method described in [Pete's blog for quantization](#) will be added into project [tiny-cnn](#) together with deconvolutional functions. This project will be the dependency of OpenCV afterwards. There is also an IOS APP demo for such tiny deep learning structure.

Organization
OpenCV

Student
Yida Wang

Mentors

GET THE CODE

Learning-based Super Resolution

Super resolution is the process of up-scaling and improving the details of an image. Currently the super resolution modules within OpenCV are based on methods such as robust regularization and optic flow estimation, while the current state-of-the-art methods are based on deep learning. I propose to add learning-based super resolution methods to OpenCV. This will allow for more accurate and faster (real-time) super resolution.

Organization
OpenCV

Student
Xavier Weber

Mentors
Yida Wang

GET THE CODE

**From student
To mentor**

<https://summerofcode.withgoogle.com/archive/2016/organizations/6474535423442944/>

3. Research Engineering – selected works from companies



Akond Rahman

North Carolina State University, USA

Grand Prize: \$5,000

Entry: Quantifying Semantic Similarity of Software Projects using Deep Semantic Similarity Model ([DSSM](#))



Varun Agrawal

Georgia Institute of Technology, USA

Second Prize: \$2,500

Entry: OneGroup: Automated Photo Sharing via Facial Recognition using [Microsoft Cognitive Services](#) (FKA Project Oxford)



Saeid TizPaz Niari

University of Colorado, Boulder, USA

Second Prize: \$2,500

Entry: CONFidentiality CERTifier: a Modeling and Verification Framework for Program Confidentiality using [Z3](#)



Yida Wang

Beijing University of Posts and Telecommunications, China

Second Prize: \$2,500

Entry: [CNTK](#) on Mac: 2D Object Restoration and Recognition on 3D Model



(2) Microsoft Open Source Challenge

- Global 2nd prize in (5 winners in total)
- Invited talk in Microsoft Faculty Summit 2016

Microsoft Open Source Challenge

Our recent Challenge offered \$15,000 in prizes as students experienced the power of open source tools from a top research lab.



Winners

We are delighted to announce the winners of the Challenge. Interest over the past three months came from all round the world. The judging panel was impressed by all the entries. The following four were chosen to receive prizes. Congratulations to the winners!

Each of the winners used and in some cases added to open source tools from Microsoft Research as well as Project Oxford, which was included in the Challenge. [Read more on our Blog >](#)

4. Teaching and Mentering

- Tutor for courses:
 1. Computer Vision and Deep Learning for Autonomous Driving
 2. Perception and Learning in Robotics and Augmented Reality
 3. Deep Adversarial Training
- Supervisor for master thesis:
 1. Variational Object-aware 3D Hand Pose from a Single RGB Image – [Yafei Gao](#)
 2. 3D Surface Registration Using Shape Completion – [Mahsa Baghaei Heravi](#)
 3. 3D Instances from a single RGB Image – [Peter Mortimer](#)
- Invited Talks:
 - Deploying deep learning models with Microsoft CNTK on MacBook
at  **Microsoft**
 - Oral presentation for SoftPoolNet
on 

5. Technical Collaborators



Federico Tombari
from TUM



Yafei Gao
from TUM



Yanyan Li
from TUM



Nassir Navab
from TUM



Pietro Falco
from ABB



Nikolas Brasch
from TUM



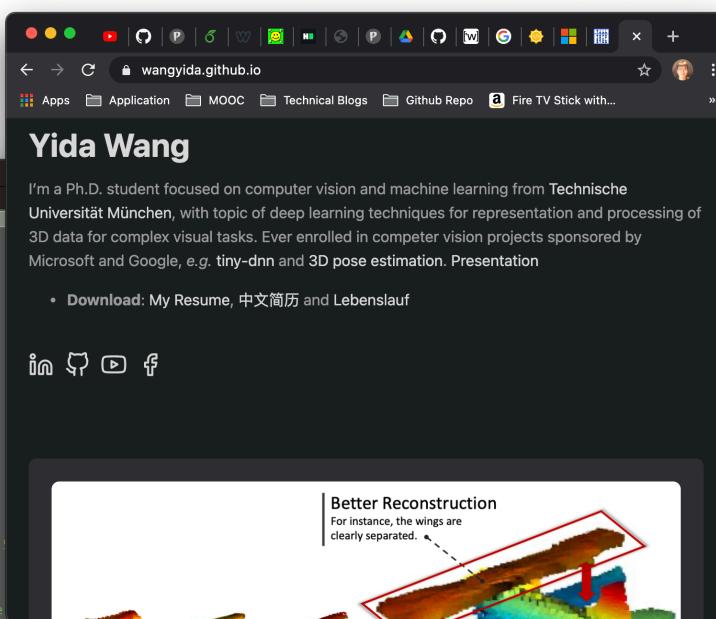
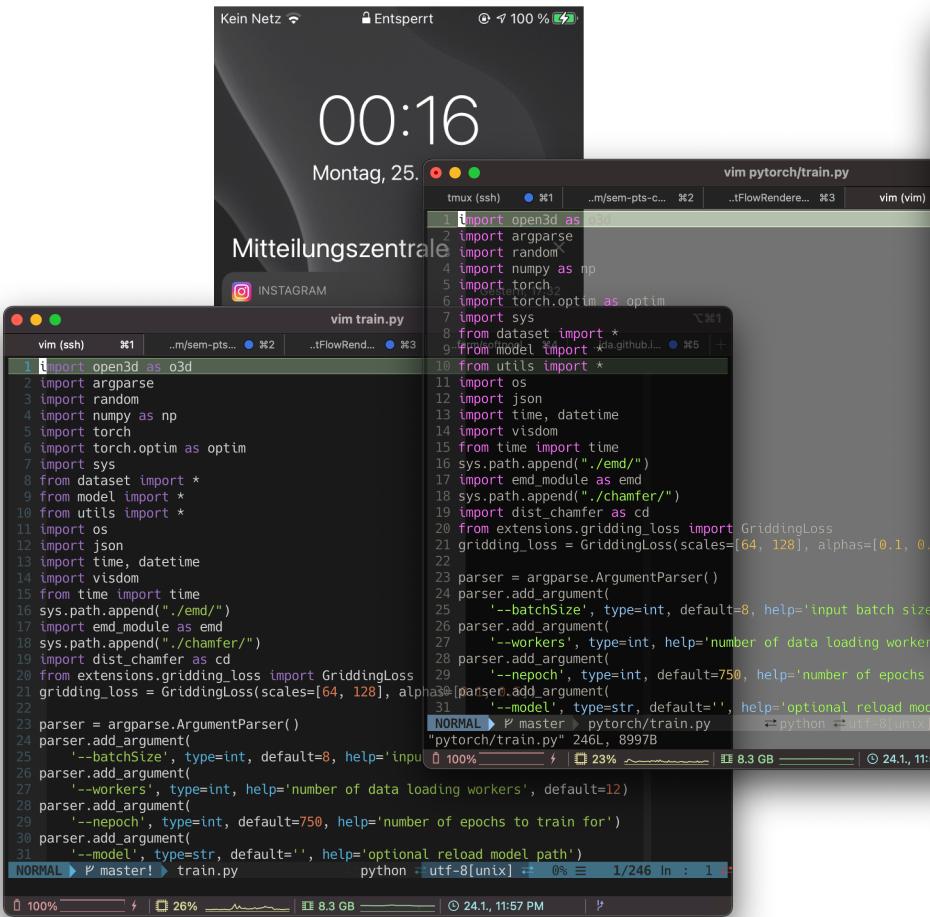
David Joseph Tan
from Google



Yiru Shen
from Facebook

6. Interesting Facts

(1) I usually prefer to work with theme consistency



iPhone theme

Website theme

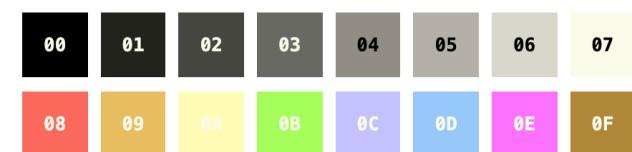
Laptop terminal theme

Station terminal theme

*All configured
with:*

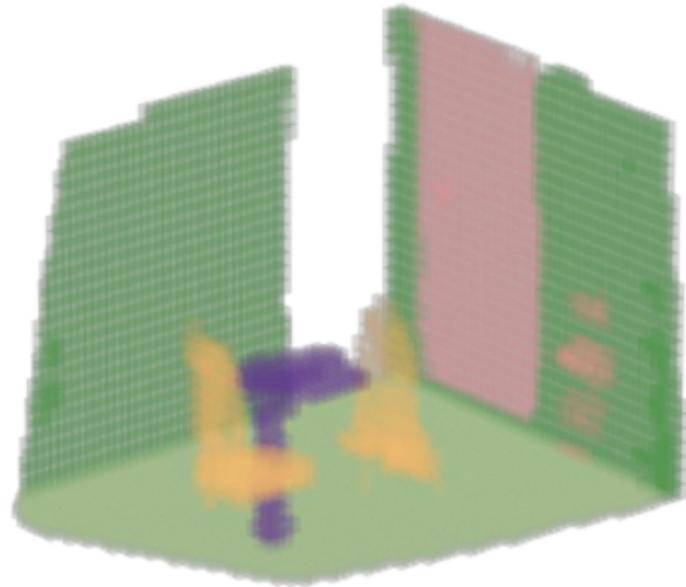
Base16 IR Black

Scheme author: Timothée Poisot (<http://timotheepoisot.fr>)

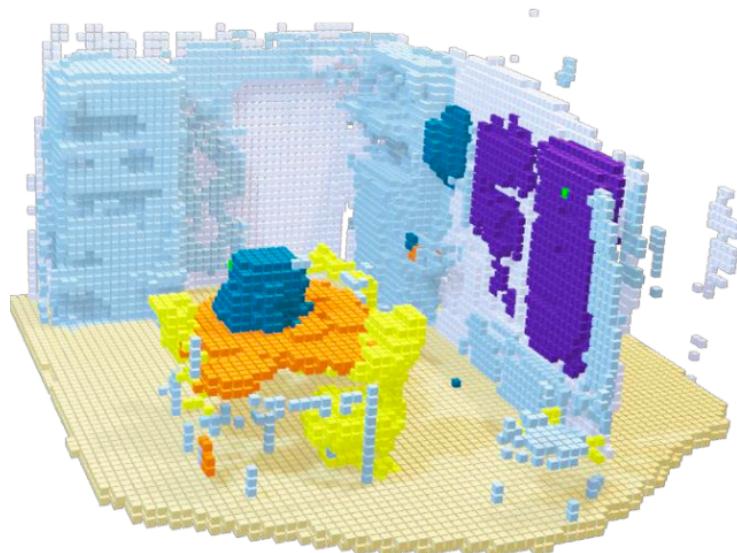


6. Interesting Facts

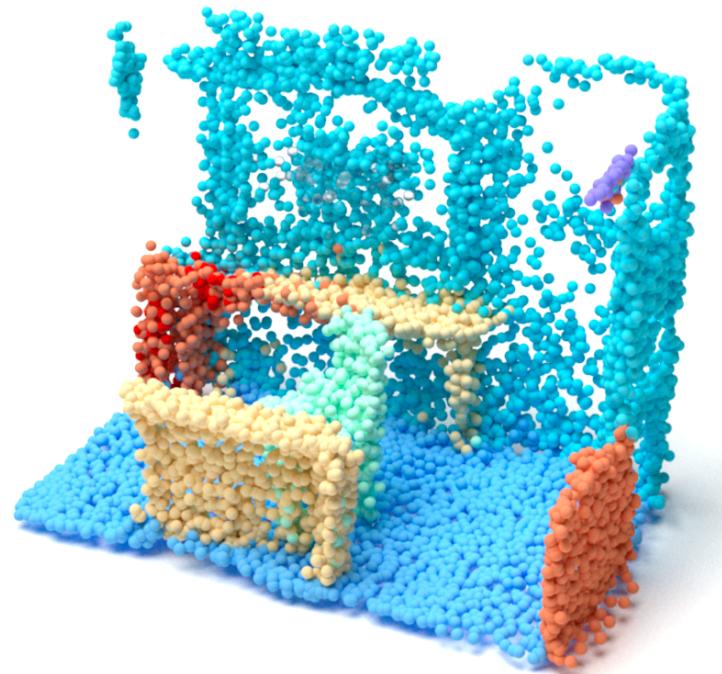
(2) I do like investigating CG rendering



2017 3DV



2019 ICCV



2021 *to be released...*

6. Interesting Facts

(3) Enjoying to be a mechanic