

Yue Chen

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Education

Technical University of Munich

M.Sc. in Robotics, Cognition, Intelligence, Grade 1.8/1.0

Munich, Germany

Oct. 2021 - Nov. 2023

Technical University of Munich

B.Sc. in Mechanical Engineering, Grade 2.5/1.0

Munich, Germany

Oct. 2017 - Sep. 2021

University of Macao

B.Sc. in Electromechanical Engineering, Three Semesters GPA 3.6/4.0

Macao, China

Aug. 2014 - Dec. 2015

Research Experience

🔗 Neural Inverse Rendering

Visual Computing & Artificial Intelligence Lab, TUM

Munich, Germany

Feb. 2023 - Nov. 2023

- Implement a differentiable path tracer to decompose NeRF scenes, distinguished by more accurate material and more realistic shading.
- Create synthetic datasets from Blender for an in-depth evaluation of model performance.

🔗 Images Relighting and Material Editing

Visual Computing & Artificial Intelligence Lab, TUM

Munich, Germany

Apr. 2022 - Sep. 2022

- Lead a three-student team in applying ray tracing for light visibility estimation in the NeRF relighting task, reducing computation time from 150+ hours to 5 minutes.

🔗 3D Visual Grounding

Visual Computing & Artificial Intelligence Lab, TUM

Munich, Germany

Sep. 2021 - Mar. 2022

- Incorporate graph neural networks and NLP to model the spatial relationships among object proposals, generating surrounding-aware features.

Graph Neural Networks for Gear Transmission Development

Chair of Machine Elements, TUM

Munich, Germany

Mar. 2021 - Sep. 2021

- Employ graph neural networks to understand and predict the relationships between components of gear transmissions.

Physics-Informed Machine Learning for Rogue Wave Prediction

Associate Professorship of Thermo-Fluid Dynamics, TUM

Munich, Germany

Oct. 2020 - Feb. 2021

- Demonstrate the potential of neural networks in solving challenging numerical problems.

Extracurricular Activity

Team Runner

TUM Campus Run 2023

Munich, Germany

May 2023

Teaching Assistant Mathematics

Preliminary Course in Higher Mathematics, TUM

Munich, Germany

Sep. 2018 - Nov. 2018

Student Assistant

TUM Open Doors Day

Munich, Germany

Oct. 2017

Manufacturing Intern

MES Marine Engine Service GmbH

Hamburg, Germany

Jun. 2027 - Oct. 2027

Volunteer Leader

Macao International Marathon

Macao, China

Dec. 2015

Student Leader

Shiu Pong College House Association, University of Macao

Macao, China

Aug. 2015 - Dec. 2015

Skills

Programming Python (*proficient*), C++ (*intermediate*), MATLAB (*intermediate*), HTML (*intermediate*)

Tools PyTorch, TensorFlow, Blender, Mitsuba, CATIA, Gurobi, LaTeX, Git, Linux

Languages Chinese (*native*), Cantonese (*native*), English (C1), German (C1)

Hobbies Skiing (50+ Days), Snowboard (*Beginner*), Basketball (PF/SF), Photography (10+ Years)