

Yue Chen

PHD CANDIDATE APPLICANT

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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

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

Teaching Assistance Mathematics

Preliminary Course in Higher Mathematics, TUM

Munich, Germany

Sep. 2018 - Nov. 2018

Student Assistance

TUM Open Doors Day

Munich, Germany

Oct. 2017

Manufacturing Intern

MES Marine Engine Service GmbH

Hamburg, Germany

Jun. 2027 - Oct. 2027

Student Leader

Shiu Pong College House Association, University of Macao

Macao, China

Aug. 2015 - Dec. 2015

- Organize events to inform students about university policies and beneficial programs.

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*)