




Deyao Zhu

H4300B-207A, KAUST, 23955 Thuwal, Saudi Arabia

 <https://tsutikgiau.github.io/> |  +966-563607673 |  deyao.zhu@kaust.edu.sa

Google Scholar: <https://scholar.google.com/citations?user=dENNKrsAAAAJ>

Research Interests

Robot Learning, Sequential Decision Making, Reinforcement Learning, Motion Forecasting, Video & Language Understanding.

Education

King Abdullah University of Science and Technology

PhD, Computer Science

Topic in Reinforcement Learning and Motion Forecasting

Thuwal, Saudi Arabia

01/2020 – Now

Gottfried Wilhelm Leibniz Universität Hannover

MSc, Electrical Engineering and Information Technology

Coursework in Robotics and Machine Learning

Hanover, Germany

10/2016 – 04/2019

Tongji University

BEng, Mechatronics

Coursework in Automation and Control Theory

Shanghai, P.R. China

09/2012 – 09/2016

Publications

1. **Deyao Zhu**, Yuhui Wang, Jürgen Schmidhuber, Mohamed Elhoseiny. **Guiding Online Reinforcement Learning with Action-Free Offline Pretraining**. *Preprint*
2. **Deyao Zhu**, Li Erran Li, Mohamed Elhoseiny. **Value Memory Graph: A Graph-Structured World Model for Offline Reinforcement Learning**. *International Conference on Learning Representations (ICLR) 2023*
3. Abdullah Mohamed, **Deyao Zhu**, Warren Vu, Mohamed Elhoseiny, Christian Claudel. **Social-Implicit: Rethinking Trajectory Prediction Evaluation and The Effectiveness of Implicit Maximum Likelihood Estimation**. *European Conference on Computer Vision (ECCV) 2022*
4. Jun Chen, Aniket Agarwal, Sherif Abdelkarim, **Deyao Zhu**, Mohamed Elhoseiny. **RelTransformer: A Transformer-Based Long-Tail Visual Relationship Recognition**. *Conference on Computer Vision and Pattern Recognition (CVPR) 2022*
5. **Deyao Zhu**, Mohamed Zahran, Li Erran Li, Mohamed Elhoseiny. **Motion Forecasting with Unlikelihood Training in Continuous Space**. *Conference on Robot Learning (CoRL) 2021 (oral 6.5%)*
6. **Deyao Zhu**, Mohamed Zahran, Li Erran Li, Mohamed Elhoseiny. **HalentNet: Multimodal Trajectory Forecasting with Hallucinative Intents**. *International Conference on Learning Representations (ICLR) 2021*
7. **Deyao Zhu**, Marco Munderloh, Bodo Rosenhahn, Jörg Stückler. **Learning to Disentangle Latent Physical Factors for Video Prediction**. *German Conference on Pattern Recognition (GCPR) 2019*

Work History

King Abdullah University of Science and Technology

Thuwal, Saudi Arabia

Teaching Assistant

01/2021 – Now

CS 283 Deep Generative Model & CS 326 Low Resource Deep Learning

Max Planck Institute for Intelligent Systems

Tübingen, Germany

Master Thesis Student

09/2018 – 04/2019

Focused on video prediction and physics scene understanding

Bosch Center for Artificial Intelligence

Renningen, Germany

Internship

03/2018 – 08/2018

Focused on policy gradient methods in autonomous driving

Institut für Informationsverarbeitung, Uni Hannover

Hanover, Germany

Research Assistant

06/2017 – 02/2018

Focused on human pose estimation

Others

Third-place in Habitat Rearrangement Challenge 2022

Reviewer in TPAMI, CoRL 2022, ECCV 2022, AAAI 2023, and CVPR 2023

Skills

Programming: PyTorch, TensorFlow, Python, Matlab, ROS, C++

Languages: English: Fluent German: Basic Hokkien: Native Mandarin: Native