# Deyao Zhu

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#### **Research Interests**

Large Language Model in Decision Making, Robot Learning, Sequential Decision Making, Motion Forecasting, Video 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**

- Deyao Zhu, Jun Chen, Kilichbek Haydarov, Xiaoqian Shen, Wenxuan Zhang, Mohamed Elhoseiny. ChatGPT Asks, BLIP-2 Answers: Automatic Questioning Towards Enriched Visual Descriptions. Preprint
- Deyao Zhu, Yuhui Wang, Jürgen Schmidhuber, Mohamed Elhoseiny. Guiding Online Reinforcement Learning with Action-Free Offline Pretraining. Preprint
- 3. 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
- Abduallah 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
- 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
- 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%)
- 7. **Deyao Zhu**, Mohamed Zahran, Li Erran Li, Mohamed Elhoseiny. **HalentNet:**Multimodal Trajectory Forecasting with Hallucinative Intents. International
  Conference on Learning Representations (ICLR) 2021

 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 SystemsTübingen, GermanyMaster Thesis Student09/2018 – 04/2019

Focused on video prediction and physics scene understanding

Bosch Center for Artificial IntelligenceRenningen, GermanyInternship03/2018 - 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