

JONAS HERZOG

PhD Student & Researcher

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SUMMARY

Motivated by scene understanding for robotic decision-making, my current research investigates how foundational knowledge can be transferred to downstream tasks through alignment, few-shot, and domain adaptation techniques.

SKILLS

Languages German: Native
English: Fluent / C1
Chinese: Intermediate / HSK 4

Main Tools PyTorch, Python, C++, Git, Linux

PROJECTS

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|------|---|
| 2026 | Few Shot Adaptation in Vision Language Models Publication
J. Herzog et al. "Reevaluating the Intra-Modal Misalignment Hypothesis in CLIP",
<i>accepted for CVPR 2026</i> . link |
| 2025 | Template Based Novel Object Detection and Segmentation Challenge
J. Herzog et al., "CNOS25", Winner of "The Best Fast Method", "The Best Open Source Method" Awards,
Track 7: Model-free 2D detection of unseen objects on BOP-H3, <i>10th International Workshop on Recovering 6D Object Pose, ICCV 2025</i> . link |
| 2025 | Promptable Grounding in Scene Graphs for Task Planning Publication
J. Herzog et al., "Domain-Conditioned Scene Graphs for State-Grounded Task Planning",
<i>IROS 2025</i> . link |
| 2024 | Cross-Domain Few-Shot Segmentation Publication
J. Herzog, "Adapt Before Comparison: A New Perspective on Cross-Domain Few-Shot Segmentation",
<i>CVPR 2024</i> . link |

EDUCATION

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|-------------------------------|---|
| 09/2024 –
03/2028 expected | PhD Control Science Zhejiang University, China
Direction: Transferring multimodal foundational knowledge
Supervisor: Yue Wang
Scholarship awardee of China Scholarship Council (CSC) |
| 09/2020 –
06/2024 | M.Sc. Computer Science Zhejiang University, China
Thesis: "Analysis and Advancement of Cross- and Open-Domain Few-Shot Segmentation"
Supervisor: Xi Li
Scholarship awardee of German Academic Exchange Service (DAAD) |
| 10/2016 –
09/2019 | B. Eng. Information Technology Baden-Wuerttemberg Cooperative State University, Germany
Thesis: "Detection of object movements in non-static RGBD camera streams"
Supervisor: Tim Bodenmüller |

SERVICE

Journal Reviewer: T-RO
Conference Reviewer: CVPR, ECCV

WORK EXPERIENCE

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|-------------------|---|
| 09/2019 – 06/2020 | Research Associate German Aerospace Center (DLR) <ul style="list-style-type: none">Robotics and Mechatronics Center, Department Perception and Cognition, Environmental Modeling.Developing, integrating and deploying solution for stabilizing humanoid robot's visual localization through segmenting dynamic objects. |
| 09/2016 – 09/2019 | Integrated Degree Program German Aerospace Center (DLR) <ul style="list-style-type: none">Robotics and Mechatronics Center, Department Perception and Cognition, Environmental ModellingDeveloping institute's robot vision systems, working with Kinect, Xtion, RealSense.Responsible for <i>Software Engineering, Vision Library Maintenance, Eye-in-Hand, Scene Reconstruction, SLAM, Scene Flow</i>. |