Ning Gao
Doctoral Researcher

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gaobaoding.github.io

I'm a fourth year PhD student at Autonomous Learning Robots (ALR) at KIT supervised by Prof. Gerhard Neumann. I'm also a doctoral researcher at Bosch Center for Artificial Intelligence (BCAI), Renningen, Germany. My research interests lie in the field of Meta-Learning and representation learning on Robot Perception & Manipulation.

Skills

Languages	Python, C++, Bash, SQL, LaTeX, MarkDown
Tools	Git, ROS, Blender
Communication	Chinese (native), English, German

Work Experience

Researcher   **May 2020 — Present**
Bosch Center for Artificial Intelligence   *Renningen, Germany*
Meta-Learning, Representation Learning, Robot Manipulation

Master Thesis Student   **May 2019 — Oct 2019**
Bosch Center for Artificial Intelligence   *Renningen, Germany*
Benchmarking deep learning algorithms for 6DoF object pose estimation

Research Intern   **Oct 2018 — Feb 2019**
Bosch Corporate Research   *Renningen, Germany*
Driver's gaze estimation for autonomous driving

Research Intern   **Mar 2018 — Aug 2018**
Bosch Corporate Research   *Renningen, Germany*
Build interior camera system prototype for autonomous driving

Undergraduate Research Assistant   **Nov 2017 — May 2018**
Institute of Measurement and Control Systems (MRT), KIT   *Karlsruhe, Germany*
Joint tracking for multiple pedestrians and vehicles

Summer Intern   **Jun. 2015 — Sep. 2015**
Daimler Greater China Ltd.   *Beijing, China*
Engine testing and calibration

Education

Doctoral Researcher in Computer Science   2020-Present
Karlsruhe Institute of Technology, Karlsruhe, Germany
M.Sc in Mechanical Engineering   2016-2019
Karlsruhe Institute of Technology, Karlsruhe, Germany
B.Sc in Automotive Engineering   2011-2016
Tongji University, Shanghai
Outstanding Graduate Award
Daqing Experimental Highschool   2008-2011
Daqing, Heilongjiang Province

Activities

Reviewer of ICRA2021, ICRA2022, IROS2022, CoRL2022, CoRL2023
The Machine Learning Summer School, Tübingen, Germany   2020

Publications

Meta-Learning Regrasping Strategies for Physical-Agnostic Objects   Under review ICRA 2024
Gao, Ning and Zhang, Jingyu and Chen, Ruijie and Vien, Ngo Anh and Ziesche, Hanna Carolin and Neumann, Gerhard
SA6D: Self-Adaptive Few-Shot 6D Pose Estimator for Novel and Occluded Objects CoRL 2023
Gao, Ning and Vien, Ngo Anh and Ziesche, Hanna Carolin and Neumann, Gerhard
Enhancing Interpretable Object Abstraction via Clustering-based Slot Initialization BMVC 2023
Gao, Ning and Hohmann, Bernard and Neumann, Gerhard
What Matters for Meta-Learning Vision Regression Tasks?   CVPR 2022
Gao, Ning and Ziesche, Hanna Carolin and Vien, Ngo Anh and Volpp, Michael and Neumann, Gerhard
Category-Agnostic 6D Pose Estimation with Conditional Neural Processes   WiCV workshop, CVPR 2022

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Li, Yumeng and **Gao, Ning*** and Ziesche, Hanna Carolin and Neumann, Gerhard*

Signature:
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