

Ning Gao

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Doctoral Researcher

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I'm a fourth-year PhD student in [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 **self-supervised learning** on **Robot Perception & Manipulation**, e.g. **robotic grasping**, **6D object pose estimation** and **unseen object segmentation**.

SKILLS

Languages	Python, Bash, \LaTeX , Markdown
Tools	Git, ROS, Blender, Pytorch, Open3D
Communication	Chinese (native), English, German

WORK EXPERIENCE

Researcher <i>Bosch Center for Artificial Intelligence</i> Meta-Learning, Representation Learning, Robot Manipulation	May 2020 — Present <i>Renningen, Germany</i>
Master Thesis Student <i>Bosch Center for Artificial Intelligence</i> Benchmarking deep learning algorithms for 6DoF object pose estimation	May 2019 — Oct 2019 <i>Renningen, Germany</i>
Research Intern <i>Bosch Corporate Research</i> Driver's gaze estimation for autonomous driving	Oct 2018 — Feb 2019 <i>Renningen, Germany</i>
Research Intern <i>Bosch Corporate Research</i> Build interior camera system prototype for autonomous driving	Mar 2018 — Aug 2018 <i>Renningen, Germany</i>
Undergraduate Research Assistant <i>Institute of Measurement and Control Systems (MRT), KIT</i> Joint tracking for multiple pedestrians and vehicles	Nov 2017 — May 2018 <i>Karlsruhe, Germany</i>
Summer Intern <i>Daimler Greater China Ltd.</i> Engine testing and calibration	Jun. 2015 — Sep. 2015 <i>Beijing, China</i>

EDUCATION

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

ACTIVITIES

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

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