

# Dingding Cai

PhD Candidate at Tampere University

✉ [caidingding815@gmail.com](mailto:caidingding815@gmail.com)  
📁 [dingdingcai.github.io](https://dingdingcai.github.io)  
Google Scholar



## EDUCATION BACKGROUND

- Oct 2020 - Present **Tampere University**, Tampere, Finland.  
*Doctor of Science, Computing and Electrical Engineering*
- Sep 2015 - Dec 2017 **Tampere University of Technology**, Tampere, Finland.  
*Master of Science (with distinction), Information Technology*
- Sep 2011 - Jun 2015 **Sichuan University**, Chengdu, China.  
*Bachelor of Engineering, Software Engineering*

## WORK EXPERIENCE

- Jun 2024 - Aug 2024 **Summer Intern**, Huawei Finland Research Center, Tampere, Finland.  
Perspective correction, extended depth of field, camera novel vision system.
- Apr 2019 - Oct 2020 **Senior Algorithm Engineer**, Missfresh Ecommerce, Shenzhen, China.  
Computer vision algorithms for smart vending machines and warehouse management.
- Mar 2018 - Apr 2019 **Algorithm Engineer**, Hahabianli, Shenzhen, China.  
Anomaly detection and object detection algorithms for smart vending machines.
- Jun 2016 - Mar 2018 **Research Assistant**, Tampere University of Technology, Tampere, Finland.  
Image super-resolution, classification, and video analysis.

## RESEARCH WORK

- Under Review*, 2024 Dingding Cai, Janne Heikkilä, Esa Rahtu, **GS-Pose: Generalizable Segmentation-based 6D Object Pose Estimation With Gaussian Splatting.**
- SCIA*, 2023 Dingding Cai, Janne Heikkilä, Esa Rahtu, **MSDA: Monocular Self-supervised Domain Adaptation for 6D Object Pose Estimation.**
- 3DV*, 2022 Dingding Cai, Janne Heikkilä, Esa Rahtu, **SC6D: Symmetry-agnostic and Correspondence-free 6D Object Pose Estimation.**
- CVPR*, 2022 Dingding Cai, Janne Heikkilä, Esa Rahtu, **OVE6D: Object Viewpoint Encoding for Depth-based 6D Object Pose Estimation.**
- Pattern Recognition Letters*, 2019 Dingding Cai, Ke Chen, Yanlin Qian, Joni-Kristian Kämäräinen, **Convolutional Low-resolution Fine-grained Classification.**

## OTHERS

- Sep 2024 - Present Visiting Researcher, ETH Zurich, Switzerland
- Dec 2017 Graduation Award Master of Science with Distinction, Tampere University, Finland
- Aug 2017 - Aug 2017 Vision and Sports Summer School, Czech Technical University, Czech Republic
- Aug 2014 - Jun 2015 International Student Exchange Program, University of Tampere, Finland