

# Jens Lundell

Assistant Professor in Robotics and Machine Learning | Email: [jens.lundell@utu.fi](mailto:jens.lundell@utu.fi) | Webpage  
Department of Computing, University of Turku (UTU), Turku, Finland.

## EDUCATION

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- **Ph.D. Robotics and Autonomous Systems** 02/2022  
Aalto University, Espoo, Finland
  - Worked on robotic grasping with deep generative models.
  - Thesis title: Towards Robust 6-DoF Multi-Finger Grasping in Clutter with Explicit Scene Understanding.
  - Supervisor: Ville Kyrki.
- **M.Sc. Space Science and Technology / Space Robotics and Automation (Dual Degree)** 2016  
Aalto University, Finland & Luleå University of Technology, Sweden
- **B.Sc. Automation and Systems Technology** 2014  
Aalto University, Espoo, Finland
  - Specialization: Automation and Control Engineering, discrete mathematics.

## WORK EXPERIENCE

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- **Assistant Professor (Tenure Track) in Robotics and Machine Learning** 09/2025 – Now  
University of Turku (UTU), Turku, Finland
- **Postdoctoral Researcher** 05/2022 – 06/2025  
Royal Institute of Technology (KTH), Stockholm, Sweden
  - Worked on dexterous manipulation and diffusion models for grasp generation.
  - Supervisor: Danica Kragic.
- **Postdoctoral Researcher** 02/2022 – 04/2022  
Aalto University, Helsinki, Finland
  - Supervisor: Ville Kyrki.
- **Visiting Doctoral Researcher** 01/2020 – 03/2020  
University of Washington, Seattle, USA
  - Collaborated with NVIDIA Robotics Research on constrained grasp generation.
  - Supervisor: Dieter Fox.

## SELECTED PUBLICATIONS

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- Zehang Weng, Haofei Lu, Danica Kragic, and **Jens Lundell**. Dexdiffuser: Generating Dexterous Grasps with Diffusion Models. In: *IEEE Robotics and Automation Letters* (RA-L). 2024.
- **Jens Lundell**, Francesco Verdoja, and Ville Kyrki. Robust Grasp Planning Over Uncertain Shape Completions. In: *IEEE/RSJ International Conference on Intelligent Robots and Systems* (IROS). 2019.
- **Jens Lundell**, Francesco Verdoja, and Ville Kyrki. Beyond Top-Grasps Through Scene Completion. In: *IEEE International Conference on Robotics and Automation* (ICRA). 2020.
- **Jens Lundell**, Francesco Verdoja, and Ville Kyrki. DDGC: Generative Deep Dexterous Grasping in Clutter. In: *IEEE Robotics and Automation Letters* (RA-L). 2021.
- **Jens Lundell**, et al. Multi-FinGAN: Generative Coarse-to-Fine Sampling of Multi-Finger Grasps. In: *IEEE International Conference on Robotics and Automation* (ICRA). 2021.

A complete list of publications (25+ total, 500+ citations, h-index 13) is available on [Google Scholar](#).

## RESEARCH FUNDING AND GRANTS

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- **Research Council of Finland Academy Research Fellowship** (pending) 2026 – 2031  
Applied funding: €1,000,000. Principal Investigator.

- Title: Beyond Kinematics: Cross-Embodiment End-Effect Adaptation in Vision-Language-Action Models.
- **WASP-Aalto Postdoctoral Fellow Project** 2023 – 2024  
Wallenberg AI, Autonomous Systems and Software Program
  - Funding covers two postdoctoral researchers, travel, and 15% of PIs' salaries.
  - Wrote the majority of the project plan. PIs: Prof. Ville Kyrki, Prof. Danica Kragic.
- **Aalto Elec Doctoral School Scholarship** 2019 – 2022  
Aalto University
  - Personal scholarship funding three years of doctoral studies.

## TEACHING EXPERIENCE

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Contributed to the following courses:

- Perception and Navigation in Mobile Robotics (course responsible, lectures) UTU, 2025
- Robotic Manipulation (teaching assistant, exercises) Aalto, 2019, 2021–2022
- Reinforcement Learning (teaching assistant) KTH, 2023

## SUPERVISORY AND ORGANIZATIONAL ACTIVITY

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Co-supervised the following students:

- Zehang Weng (Ph.D., defended 2025) KTH
- Alberta Longhini (Ph.D., defended 2025) KTH
- Haofei Lu (Ph.D. ongoing) KTH
- 11 Master's thesis students KTH, Aalto, CTU Prague
- 3 summer trainees

Co-organized the following events and activities:

- RPL Summer School 2024 (6-day event, 80+ researchers) KTH, 2024
- Mini-conference for 20 robotics Ph.D. students KTH & Örebro Univ., 2024

## AWARDS AND HONOURS

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- Outstanding Associate Editor Award, IEEE/RSJ IROS 2025
- Aalto University Doctoral Thesis Award (top 10% at School of Electrical Engineering) 2023
- Aalto Elec Doctoral School Scholarship 2019–2022

## SELECTED INVITED TALKS

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- CoRL 2024 Workshop on Mastering Robot Manipulation in a World of Abundant Data Munich (Germany), 2024

## ACADEMIC SERVICE

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- Associate Editor: ICRA, IROS 2025–2026
- Reviewer: CoRL, RSS, IEEE IROS, IEEE ICRA, IEEE T-RO, IEEE RA-L

## SELECTED SOFTWARE

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Developed the following open-source robotics software:

- [\[LINK\]](#) 6-DoF GraspNet: PyTorch implementation (developed during NVIDIA collaboration).
- [\[LINK\]](#) Constrained 6-DoF grasp sampling implementation and dataset.
- [\[LINK\]](#) MuJoCo simulation environment for prehensile pushing.
- [\[LINK\]](#) DDGC: Deep dexterous grasping in clutter.
- [\[LINK\]](#) Multi-FinGAN: Multi-finger grasp generation.
- [\[LINK\]](#) Point cloud segmentation algorithms in ROS.

Further software is available on [GitHub](#).

## SKILLS

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- Languages: Swedish (native), English (Fluent), Finnish (satisfactory).
- Programming: Python (PyTorch, ROS), C++, L<sup>A</sup>T<sub>E</sub>X, Bash.