

# KRISTINA NIKOLOVSKA



## Research Associate · Social Navigation in Human–Robot Interaction

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<https://scholar.google.com/citations?user=pRRKAHoAAAAJ>

## RESEARCH EXPERIENCE

### Research Associate

Constructor University

⌚ 2022 – Present

📍 Bremen, Germany

- Studying robot navigation, movement cues, and path legibility within the DFG SPP \*“The Active Self”\*.
- Designing controlled behavioural experiments to understand how people attribute intention, agency, and selfhood to robots.

### Researcher

University of Ljubljana

⌚ 2020 – 2021

📍 Ljubljana, Slovenia

- Conducted two HRI studies examining how robot speed and end-effector type influence perceived safety, comfort, trust, and collaboration.
- Contributed to study design, data collection, analysis, and reporting.

### Algorithm Developer

Epilog d.o.o.

⌚ 2017 – 2018

📍 Ljubljana, Slovenia

- Developed an AGV parking-planner algorithm as part of a team building a new warehouse robot.
- Contributed to algorithm design, testing, and integration in real warehouse environments.

### Project Engineer – Safe Landing-Zone ID

University of Ljubljana

⌚ 2018

📍 Ljubljana, Slovenia

- Contributed to a research team developing a multisensor UAV landing-zone detection system.
- Worked on sensor selection, sensor placement, fusion logic, and system testing.

## TEACHING EXPERIENCE

### Lecturer – Robot–Intelligent Systems (“RIS Project”)

Constructor University

⌚ 2025

📍 Bremen, Germany

- Designed and delivered lectures on AGV self-driving concepts, including perception, navigation, and control.
- Led hands-on Duckietown labs where students implemented autonomous driving pipelines.
- Mentored 20+ students in project development, debugging, and system testing.
- Coordinated assessment and final project evaluation.

## PROFESSIONAL EXPERIENCE AND PROJECTS

### Engineer for New Solutions

Krka d.d.

⌚ 2021

📍 Novo Mesto, Slovenia

- Researched, tested, and introduced new digital technologies within company workflows.

- Provided technical support to 200+ users across departments and maintained communication between users and external developers.
- Conducted testing, troubleshooting, and optimisation of IT infrastructure and applications.

### Project Member – “DigiPath: Youth Up 4 Possibilities”

#### Erasmus+ Programme

📅 2023 – 2024

📍 Remote / Slovenia

- Contributed to an Erasmus+ initiative addressing youth unemployment across eight Balkan countries.
- Helped develop a digital platform connecting education, labour markets, and youth sectors to support sustainable career pathways.
- Supported cross-border cooperation, research activities, and the development of youth-focused digital tools.

### New Entrepreneur – Erasmus for Young Entrepreneurs

#### Robotcloud UG

📅 2020

📍 Munich, Germany

- Completed a 6-month entrepreneurial exchange focused on robotics innovation and start-up development.
- Worked on early-stage concept shaping and business modelling in robotics.

### Project Coordinator – “DIVE 3: Social Enterprise Capacity Building”

#### N.K.L. Inženiring

📅 2019 – 2020

📍 Ljubljana, Slovenia

- Led Slovenia's work package within an Erasmus+ strategic partnership.
- Managed a five-member team and collaborated with more than 30 enterprises.
- Coordinated national activities and youth entrepreneurship events engaging over 300 participants.

## EDUCATION

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### PhD in Robotics

#### Constructor University

📅 2023 – Present

📍 Bremen, Germany

Research focus: social navigation and human–robot interaction, with an emphasis on how robot motion is perceived, interpreted, and used to support intuitive and collaborative behaviour.

### M.Eng. in Robotics

#### University of Ljubljana, Faculty of Electrical Engineering

📅 2016 – 2019

📍 Ljubljana, Slovenia

Master's thesis: *Path planning for parking of an autonomous vehicle*, exploring motion-planning strategies for precise and efficient autonomous parking manoeuvres.

### B.Sc. in Electrical Engineering

#### University of Ljubljana

📅 2012 – 2016

📍 Ljubljana, Slovenia

Specialisation in Control Engineering, including coursework and practical projects in automation, control systems, and robotics.

## SKILLS

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Python   C++   ROS   Linux   MATLAB   RobotStudio   LaTeX

Robotic Programming   Motion Planning   Human–Robot Interaction   Team Leadership

Project Management   Problem Solving   Multidisciplinary Collaboration

English (C1)   Slovenian (C2)   Macedonian (C2)   German (B1)