

Tamlin Love

Barcelona, Spain

tamlinlove.github.io | [GitHub](#) | [LinkedIn](#) | Email: tlove@iri.upc.edu

RESEARCH INTERESTS

I am a young researcher from South Africa, now working as a PhD student at the Institut de Robotica i Informàtica Industrial (IRI) (under CSIC and UPC) in Barcelona, working on the TRAIL MSCA-DN project. I am passionate about the possibilities for humans and artificial agents to communicate, collaborate and learn from each other. To that end, I am interested in areas where human knowledge can augment an agent's abilities (e.g. human-in-the-loop, interactive RL) and where human-agent collaboration and communication can improve the human experience (e.g. human-robot interaction, social robotics, explainability). More broadly, I am also interested in the ethical, explainable and safe applications of these technologies.

EDUCATION

Universitat Politècnica de Catalunya <i>PhD in Automatic Control, Robotics and Computer Vision</i>	Barcelona, Spain 2023 – Present
University of the Witwatersrand <i>Master of Science in Computer Science (with distinction)</i>	Johannesburg, South Africa 2020 – 2021
University of the Witwatersrand <i>Bachelor of Science Honours in Computer Science (with distinction)</i>	Johannesburg, South Africa 2019
University of the Witwatersrand <i>Bachelor of Science in Computer Science (with distinction)</i>	Johannesburg, South Africa 2016 – 2018
St John's College <i>Matric (8 distinctions)</i>	Johannesburg, South Africa 2015

Member of the [Perception and Manipulation](#) group at the [Institut de Robòtica i Informàtica Industrial](#) from 2023 - present.
Member of the [Robotics, Autonomous Intelligence and Learning \(RAIL\)](#) from 2020 - 2023.

PUBLICATIONS

For a complete list, please follow [this link](#).

<u>Towards Explainable Proactive Robot Interactions for Groups of People in Unstructured Environments</u> <i>Tamlin Love, Antonio Andriella, Guillem Alenyà</i> <i>Late Breaking Report @ 2024 ACM/IEEE International Conference on Human-Robot Interaction</i>	2024
<u>Who should I trust? Cautiously learning with unreliable experts</u> <i>Tamlin Love, Ritesh Ajoodha, Benjamin Rosman</i> <i>Neural Computing and Applications</i> Masters Thesis Featured at RLDM 2022 and HARL Workshop @ ICDL 2021	2022
<u>Building Undirected Influence Ontologies Using Pairwise Similarity Functions</u> <i>Tamlin Love, Ritesh Ajoodha</i> <i>International SAUPEC/RobMech/PRASA Conference</i> Honours Research Project	2020

WORK EXPERIENCE

Researcher <i>Institut de Robòtica i Informàtica Industrial</i>	2023 – Present <i>Barcelona, Spain</i>
<ul style="list-style-type: none">Working on the <i>TRAIL: TRAnsparent InterpretabLe robots</i> project (project code: HORIZON-MSCA-DN-101072488), a Marie Skłodowska-Curie Doctoral Network project funded by the European Union.Involves research on explainability, causality, human-robot interaction, and robot perception.Includes extensive use of Python and ROS.	
Sessional Lecturer <i>University of the Witwatersrand</i>	2022 – 2023 <i>Johannesburg, South Africa</i>
<ul style="list-style-type: none">Managed and taught the 3rd year Software Design courses and co-taught the 1st year Basic Computer Organisation course for the Computer Science undergraduate degree	

- Set, oversaw and marked practical and theoretical assessments for the above courses

Backend Developer

BodyBack

2021 – 2022

Johannesburg, South Africa

- Created and maintained the REST backend framework for the BodyBack mobile application

Tutor

University of the Witwatersrand

2018 – 2021

Johannesburg, South Africa

- Tutored a number of computer science and applied mathematics courses for undergraduate and honours students

PROGRAMMING EXPERIENCE

Languages : Python, Java, C, C++, Matlab

I have experience working with robots (ARI by Pal Robotics, TurtleBot, Kuri by Mayfield Robotics, and RealAnt by OTE) and with the robotics operating system (ROS).

OTHER EXPERIENCE

Organisation

- “Robot Learning for Africa Workshop” at the Deep Learning Indaba in Ghana, 2023 ([Website](#))
- “From Specialists to Generalists: The World of Generalised RL Agents” workshop at the Deep Learning Indaba in Tunisia, 2022 ([Website](#))

Workshops and Summer Schools

- [EASE Fall School](#), Bremen, Germany 2023
- [Deep Learning Indaba](#), Tunis, Tunisia 2022
- [HARL Workshop @ ICDL](#) 2021

Reviewing

[HARL Workshop @ ICRA 2024](#); [AAMAS 2024](#); [UniReps Workshop @ NeurIPS 2023](#); [ICSR 2023](#); [ICRA 2023](#); [NeurIPS 2022](#)

Languages

- English (home language)
- Italian (conversational)
- Spanish (conversational)

ACADEMIC AWARDS AND SCHOLARSHIPS

2022

Poster award at the Deep Learning Indaba 2022

2021

Post-graduate merit award scholarship

2020

Post-graduate merit award scholarship

2019

Post-graduate merit award scholarship

Dean’s list

2018

Dean’s list

Liberty Life Gold Medal for outstanding performance in Computer Science

Prize for Top Student in Computational & Applied Mathematics

Herbert Le May Prize for the best 3rd year science student majoring in Applied Mathematics

Placed 2nd in the SAMMC competition for mathematical modelling

First class certificates for 4 courses, merit certificate for 1 course

2017

Dean’s list

Psybergate Computer Science prize

First class certificates for 3 courses, merit certificates for 6 courses

2016

Dean’s list