



## Leonardo Lamanna

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**Gender:** Male | **Date of birth:** Apr 22 1996 | **Nationality:** Italy

### WORK EXPERIENCE

- [ 01/2023 - present ] **Researcher (level 3)**  
*Fondazione Bruno Kessler (FBK)* , Sommarive, 18 - TRENTO (TN) Italy  
**Company sector:** R&D and patents  
**Business or sector:** education, training, research and development  
**Main activities and responsibilities:** Artificial Intelligence: Integration of Learning, Planning and Acting
- [ 11/2022 - 01/2023 ] **Collaborator for research activities**  
*Fondazione Bruno Kessler (FBK)* , Via Sommarive, 18 - TRENTO (TN) Italy  
**Company sector:** Engineering and design  
**Business or sector:** education, training, research and development  
**Main activities and responsibilities:** Artificial Intelligence: integration of learning, planning and acting
- [ 11/2019 - 11/2022 ] **Ph.D. student**  
*University of Brescia and Fondazione Bruno Kessler (FBK)* , Sommarive, 18 - TRENTO (TN) Italy  
**Company sector:** Engineering and design  
**Business or sector:** education, training, research and development  
**Main activities and responsibilities:** Artificial intelligence: integrate learning, planning and acting
- [ 10/2014 - 02/2015 ] **programmer and accountant**  
*Calzificio Mura Spa* , Mantova - ASOLA (MN) Italy  
**Business or sector:** computer science, data processing and acquisition  
**Main activities and responsibilities:** Technical support.  
**Acquired skills and achieved objectives:** Have a work experience in a medium-size company.

### EDUCATION AND TRAINING

- [ 2019 - 2023 ] **PhD in Information Engineering**  
*Università degli Studi di BRESCIA*  
**Town:** BRESCIA  
**EQF level:** 8  
**NQF level:** Doctor of Philosophy (Ph.D.)  
**Dissertation/thesis title:** Integrating Planning and Learning for Agents Actin in Unknown Environments
- [ 2017 - 2019 ] **Master degree in Computer Engineering**  
*Università degli Studi di BRESCIA*  
**Town:** BRESCIA  
2nd level degree in Computer engineering  
**Final degree mark:** 110/110 cum laude  
**EQF level:** 7  
**NQF level:** 2nd cycle degree/Master of Science (2 years)  
**Dissertation/thesis title:** Mathematical Programming versus Artificial Intelligence: innovative methods for solving integer linear optimization problems.
- [ 2014 - 2017 ] **Bachelor degree in Computer Engineering**  
*Università degli Studi di BRESCIA*  
**Town:** BRESCIA  
1st level degree in Information technology  
**Final degree mark:** 90/110

EQF level: 6

NQF level: 1st cycle degree/Bachelor (3 years)

Dissertation/thesis title: Kernel search: un'applicazione al problema dell'allocazione di risorse nel grid computing

## PRE-UNIVERSITY STUDIES

[ 2014 ]

**Secondary school diploma:** Business High School  
Italian secondary school diploma

## LANGUAGE SKILLS

**Mother tongue(s):** Italian

**Other language(s)**

### English

LISTENING: B2 READING: B2 WRITING: B2

SPOKEN INTERACTION: B2 SPOKEN PRODUCTION: B2

### Diploma(s) or certificate(s)

**English:** ESOL certificate B1 threshold - British Institutes, 14 12 2016 - European level: B1

*Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user*

*Common European Framework of Reference for Languages*

## ACADEMIC STUDIES IN FOREIGN COUNTRIES

**Other experience not acknowledged by the course of study**

**Language:** English

**Duration of studies in months:** 3

**Foreign country where the academic studies were carried out:** Orebro (Sweden)

**Description:** Visit to the Centre for Applied Autonomous Sensor Systems (AASS) for a research project focused on the integration of planning and learning experimentally evaluated on a SoftBank Pepper robotic platform.

## DIGITAL COMPETENCES

### SELF-ASSESSMENT

INFORMATION AND DATA LITERACY	COMMUNICATION AND COLLABORATION	DIGITAL CONTENT CREATION	SAFETY	PROBLEM SOLVING
-	-	-	-	-

Digital competences - Self-assessment grid

**Basic digital competence:**

### COMPUTER PROGRAMMING

**Markup languages:** CSS (Intermediate) | **Programming languages:** C (Intermediate) , C++ (Intermediate) , Java (Advanced) , JavaScript (Intermediate) , Prolog (Foundation) , Python (Advanced) | **Web Programming:** PHP (Intermediate)

### SYSTEMS AND NETWORKS MANAGEMENT

**Network architecture:** (Foundation) | **Operating systems:** (Intermediate)

### DATA MANAGEMENT

**DBMS:** (Intermediate)

## DRIVING LICENCE

Driving licence category B / Car available

## PUBLICATIONS

- Conference proceedings "Action Model Learning from Noisy Traces: a Probabilistic Approach" ; Leonardo Lamanna, Luciano Serafini ; 34th International Conference on Automated Planning and Scheduling (ICAPS 2024) (2024)
- Doctorate thesis "Integrating Planning and Learning for Agents Acting in Unknown Environments" ; Leonardo Lamanna ;

University of Brescia (2023)

[iris.unibs.it/bitstream/11379/585805/1/PhD\\_thesis\\_LeonardoLamanna.pdf](https://iris.unibs.it/bitstream/11379/585805/1/PhD_thesis_LeonardoLamanna.pdf)

Conference proceedings

"Learning to Act for Perceiving in Partially Unknown Environments" ; Leonardo Lamanna, M. Faridghasemnia, A. Gerevini, A. Saetti, A. Saffiotti, L. Serafini, P. Traverso ; 32nd International Joint Conference on Artificial Intelligence (IJCAI 2023) (2023)  
[www.ijcai.org/proceedings/2023/0609.pdf](http://www.ijcai.org/proceedings/2023/0609.pdf)

"Online Grounding of Symbolic Planning Domains in Unknown Environments" ; Leonardo Lamanna, Luciano Serafini, Alessandro Saetti, Alfonso Gerevini, Paolo Traverso ; 19th International Conference on Principles of Knowledge Representation and Reasoning (KR 2022) (2022)  
[proceedings.kr.org/2022/53/](http://proceedings.kr.org/2022/53/)

"Online Learning of Reusable Abstract Models for Object Goal Navigation" ; Tommaso Campari, Leonardo Lamanna, Paolo Traverso, Luciano Serafini, Lamberto Ballan ; Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022) (2022)  
[openaccess.thecvf.com/content/CVPR2022/html/Campari\\_Online\\_Learning\\_of...](https://openaccess.thecvf.com/content/CVPR2022/html/Campari_Online_Learning_of...)

"Planning for Learning Object Properties" ; Leonardo Lamanna, Luciano Serafini, Mohamadreza Faridghasemnia, Alessandro Saffiotti, Alessandro Saetti, Alfonso Gerevini, Paolo Traverso ; Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI 2023) (2022)  
[ojs.aaai.org/index.php/AAAI/article/view/26416](https://ojs.aaai.org/index.php/AAAI/article/view/26416)

Journal articles

"A Two-phase Kernel Search variant for the Multidimensional Multiple-choice Knapsack Problem" ; Lamanna Leonardo, Mansini Renata, Zanotti Roberto ; European Journal of Operational Research (2021)  
[www.sciencedirect.com/science/article/abs/pii/S0377221721004197](http://www.sciencedirect.com/science/article/abs/pii/S0377221721004197)

Conference proceedings

"On-line Learning of Planning Domains from Sensor Data in PAL: Scaling up to Large State Spaces" ; Leonardo Lamanna, A.E. Gerevini, A. Saetti, L. Serafini, P. Traverso ; Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI 2021) (2021)  
[ojs.aaai.org/index.php/AAAI/article/view/17409](https://ojs.aaai.org/index.php/AAAI/article/view/17409)

"Online Learning of Action Models for PDDL Planning" ; Leonardo Lamanna, A. Saetti, L. Serafini, A.E. Gerevini, P. Traverso ; 30th International Joint Conference on Artificial Intelligence (IJCAI 2021) (2021)  
[www.ijcai.org/proceedings/2021/0566.pdf](http://www.ijcai.org/proceedings/2021/0566.pdf)