

PERSONAL INFORMATION

Laura Bergomi

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 0009-0006-0359-5128

Date of birth 12 April 1999 | Nationality Italian

WORK EXPERIENCE

April 2024 – Present

PhD scholar

Department of Electrical, Computer and Biomedical Engineering, University of Pavia
Pavia, Italy

Laboratory of Biomedical Informatics "Mario Stefanelli" (BMI)

Research topics: eXplainable AI, Decision Support Systems, Human - AI Collaboration, Natural Language Processing, Transformer-based models

December 2023 – April 2024

Researcher scholar

Department of Electrical, Computer and Biomedical Engineering, University of Pavia
Pavia, Italy

Laboratory of Biomedical Informatics "Mario Stefanelli" (BMI)

Research activity on the topic: "Explainable AI and NLP on biomedical data"

EDUCATION AND TRAINING

2021–2023

MEng - Master's Degree in Bioengineering

LM-21 - Biomedical engineering D.M. 270/04

Department of Electrical, Computer and Biomedical Engineering, University of Pavia

Thesis Title: "Transformer-based information extraction from Italian radiology reports investigating lymph-node lesions"

Keywords: NLP, transformer, radiology reports, biomedical information extraction, registry filling

Official study duration: 2 years

Final score: 110/110 cum laude

Date of completion: 26/10/2023

2018–2021

BEng - Bachelor's Degree in Bioengineering

L-8 - Information technology engineering D.M. 270/04

Department of Electrical, Computer and Biomedical Engineering, University of Pavia

Thesis Title: "Causal Representation Learning Between Causal Modelling and Machine Learning"

Official study duration: 3 years

Final score: 108/110

Date of completion: 21/09/2021

2018

High school leaving qualification in Languages

ISTITUTO MAGISTRALE STATALE "ADELAIDE CAIROLI", Pavia (PV)

Final score: 100/100

Type: Italian High school leaving qualification

PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Spanish	C1	C1	C1	C1	C1
Chinese	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Organisational / managerial skills

- Ability to plan activities and work independently or in a team
- Analytical thinking and problem solving
- Ability to adapt and flexibility
- Operational autonomy

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Proficient user	Independent user	Proficient user	Independent user	Proficient user

[Digital competences - Self-assessment grid](#)

Computer skills

- OFFICE AUTOMATION**
 - Word processing: (Highly specialised)
 - Spreadsheets: (Highly specialised)
 - Presentation software: (Highly specialised)
 - Office suite: (Highly specialised)
 - Web browser: (Highly specialised)
- APPLICATION SOFTWARE**
 - Statistical Analysis: MATLAB (Advanced), Orange (Intermediate)
 - Data Visualisation: MATLAB (Advanced)
- PROGRAMMING**
 - Integrated Development Environments (IDE): NetBeans (Advanced), PyCharm (Advanced), R (Intermediate)
 - Markup languages: HTML (Highly specialised), XML (Advanced)
 - Programming languages: C (Advanced), Java (Highly specialised), MATLAB (Highly specialised), Python (Highly specialised)
 - Frameworks: PyTorch (Advanced), HuggingFace (Advanced)
- SYSTEMS AND NETWORK MANAGEMENT**
 - Network architectures: (Intermediate)
 - Operating Systems: (Intermediate)
- DATA MANAGEMENT**
 - Query languages: SQL (Intermediate)
- GRAPHICS AND MULTIMEDIA**
 - Raster graphics editors: ImageJ (Intermediate)

Driving licence B