



Alessio Palma

EDUCATION AND TRAINING

[19/09/2018 – 13/12/2021]

Bachelor's Degree in Computer Science

La Sapienza University of Rome <https://www.uniroma1.it/>

Address: Piazzale Aldo Moro 5, 00185, Rome, Italy | **Field(s) of study:** Information and Communication Technologies | **Final grade:** 110/110 cum laude | **Level in EQF:** EQF level 6 | **NQF Level:** Laurea Triennale | **Thesis:** An innovative approach for Human Action Classification using Wi-Fi-to-Image Synthesis

Constantly tier 1 for academic merit, **top 5% students** of the Degree Course (years 2018-2019, 2019-2020, 2020-2021); Relevant courses: Algorithms and Data Structures, Operating Systems, Databases, Software Engineering, Computer Architectures, Computer Networks.

Honours Programme in "Device-Free Wi-Fi Human Detection, Localization, Pose Estimation and Person Re-Identification based on CSI and Deep Learning strategies"

[29/02/2020 – 29/06/2021]

VisionLab at La Sapienza University of Rome <https://visionlab.di.uniroma1.it/>

Address: Piazzale Aldo Moro 5, 00185, Rome, Italy | **Field(s) of study:** Information and Communication Technologies

Only 5 students selected for the Honours Programme from all those in the Degree Course. Rewarded with a final money prize; Performed academic **research** on Wi-Fi signals, Channel State Information and Deep Learning techniques; Implemented a teacher-student neural network architecture in **PyTorch**, with state of the art performances in Person Re-ID.

[19/09/2021 – 20/05/2024]

Master's Degree in Computer Science

La Sapienza University of Rome <https://www.uniroma1.it/>

Address: Piazzale Aldo Moro 5, 00185, Rome, Italy | **Field(s) of study:** Information and Communication Technologies | **Final grade:** 110/110 cum laude | **Level in EQF:** EQF level 7 | **NQF Level:** Laurea Magistrale | **Thesis:** Length Aware Motion Synthesis via Latent Diffusion

Artificial Intelligence Curriculum; Relevant courses: Machine Learning, Data Science, Deep Learning, Natural Language Processing, Computer Vision, Big Data.

WORK EXPERIENCE

[31/05/2019 – 31/08/2019]

Software Engineer Intern

Babelscape <https://babelscape.com/>

City: Rome | **Country:** Italy | **Business or sector:** Professional, scientific and technical activities

Recognising dialect expressions used in different countries that speak the same language, both for English and Portuguese. Achieved **87% accuracy** with a **Java** model that compares BabelNet's senses starting from Wiktionary definitions; Labeling BabelNet's synsets based on their closeness to some main categorical synsets, with Java.

PUBLICATIONS

[2024]

[VQAsk: a multimodal Android GPT-based application to help blind users visualize pictures](#)

Maria De Marsico, Chiara Giacanelli, Clizia Giorgia Manganaro, Alessio Palma, and Davide Santoro. 2024. VQAsk: a multimodal Android GPT-based application to help blind users visualize pictures. In Proceedings of the 2024 International Conference on Advanced Visual Interfaces (AVI '24). Association for Computing Machinery, New York, NY, USA, Article 39, 1–5. <https://doi.org/10.1145/3656650.3656677>

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

My Digital Skills

AI and Deep Neural Networks | Machine Learning | Deep Learning | Python | Git | Data Science | SQL | Pandas | Numpy | Matplotlib | Scikit-Learn | OpenCV | Linux | Computer Vision | Jupyter Notebook | Artificial Intelligence | Neural Networks and Deep Learning | Keras | Seaborn | Docker | Web Programming: HTML, CSS, Javascript (front-end), Java (back-end) | Data Science, Data Analytics, Data Visualization | Logistic regression | Linear regression | Polynomial Regression | SVM,kNN,Naive Bayes,Decision tree,K-means,Linear regression | Convolutional Neural Networks | Artificial Intelligence and Machine Learning concepts | Artificial Neural Networking | LaTeX | Object-Oriented Programming | Github | JSON | MySQL | Data Preprocessing | Natural Language Processing | Windows | AI platform: Pytorch, Tensorflow etc.

NETWORKS AND MEMBERSHIPS

LeadTheFuture

Among the few Italian students selected to be mentees for [LeadTheFuture](#), a **leading mentorship non-profit organization** for students in STEM, with acceptance rate below 20%.