

Matteo Zaramella

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in Matteo Zaramella

🌐 My site



🐙 Matteozara



Work Experiences


- Jan 2025 – April 2025 **Founder in Residence**, Vento srl, Turin, Italy.
I have been selected from more than 1,000 candidates to be part of the 40 participants in the 4th cohort of the Vento Building Program. This program aims to identify and nurture the next generation of founders for innovative startups by assembling a talented group of individuals, fostering teamwork, and providing mentorship to help participants turn ideas into reality.
- Nov 2024 – Present **Founder**, brAIIn, Padova, Italy.
brAIIn is a company dedicated to transforming the museum experience by making it more interactive and innovative through cutting-edge technology and software development. Developed in-house, the WDyS app leverages advanced AI models to enable visitors to engage directly with museum statues, offering a unique and immersive first-person interaction. This groundbreaking app redefines the museum experience, allowing people to connect with art in an entirely new way.
- Mar 2024 – Oct 2024 **AI Junior Researcher**, Alcor Lab, Rome, Italy.
I worked as a Junior researcher in AI, to develop a project that aimed to collect street images and generate some predictions. More in detail, I trained and fine-tuned computer vision models with different techniques. This project was in partnership with Vodafone.
- Sep 2023 – Feb 2024 **Master Thesis Research**, Florida Atlantic University (FAU), Boca Raton, FL, USA.
I was selected to work on my research master's thesis at FAU on crowd counting. I trained and finetuned many computer vision models for crowd counting purposes using different augmentation techniques to improve the performances, due to the small dataset available. I worked specifically in the manatee field, which are very big animals under extinction in South Florida. This work ended up in a publication in the Journal IEEE Open Access.
- Jan 2023 – Aug 2023 **Junior Researcher**, Sapienza University of Rome, Rome, Italy.
I was studying and developing the application of generative models (like GANs and other deep learning architectures), to deepfake applications. My research aimed to make these models work on mobile applications for the cultural heritage field.
- Sep 2022 – Feb 2023 **University Buddy for International students**, Sapienza University of Rome, Rome, Italy.
I helped international students begin their time abroad by assisting them with class schedules, the study procedures at Sapienza, and, overall, making them feel at home in Rome by helping them make new friends and with orientation.
- Sep 2018 – Apr 2022 **Waiter and Barman**, Spiller, Padova, Italy.
- Jul 2020 – Oct 2020 **Software Engineer Intern**, Sapienza University of Rome, Rome, Italy.
I developed software, backend (Golang) and frontend (Vue.js), for customers in a young startup for consultancy.

Education


- 2022 – 2024  **Master, Sapienza university of Rome** in Artificial Intelligence and Robotics.
Grade: *110L/110*.
Main subjects studied: Programming languages, Artificial Intelligence, Neural networks, Computer Vision, NLP, Robotics, Machine Learning and Deep Learning.
- 2017 – 2021  **Bachelor, Università dagli studi di Padova** in Computer Engineering.
Main subjects studied: Programming languages, SQL, Databases, Math, Hardwares, Softwares, Artificial Intelligence and Statistic.
- 2012 – 2017  **High school, ITC P.F. Calvi** in ICT and Economics.

Research Publications





Journal Articles

- 1 M. Zaramella, X. Zhu, and I. Amerini, “Enhancing manatee aggregation counting through augmentation and cross-domain learning,” *IEEE Access*, vol. 12, pp. 131 148–131 163, 2024.  DOI: 10.1109/ACCESS.2024.3457800.

Conference Proceedings



- 1 M. Zaramella, I. Amerini, and P. Russo, “Why don’t you speak?: A smartphone application to engage museum visitors through deepfakes creation,” in *Proceedings of the 5th Workshop on AnalySis, Understanding and ProMotion of HeritAge Contents*, ser. SUMAC ’23, Ottawa ON, Canada: Association for Computing Machinery, 2023, pp. 29–37, ISBN: 9798400702792.  DOI: 10.1145/3607542.3617359.

Skills



- Languages  Fluent in English and native in Italian.
- Coding  Python, PyTorch, Java, Golang, SQL, HTML, CSS, JavaScript, ...
- Platforms  Linux, Android Studio, Visual Studio Code, CUDA, Flutter
- Misc.  Computer Vision, Deep Learning, Artificial Intelligence, Machine Learning, Math, Team Work, Research, Time Management, Engineer mindset, \LaTeX .

Miscellaneous Experience

Awards and Achievements

- 2024  **Honors Master degree**, Sapienza University of Rome, Rome, Italy.
- 2023  **Best Paper Award**, SUMAC Workshop at ACM MM 2023, Ottawa, Canada.

Certification

-  **Google Generative AI course**, Google, Online.
I completed the online course on Generative AI offered by Google. In this course, I saw the evolution of the generative AI models from the early stages till now studying the theory and seeing how to use them in practice, how to finetune them for custom tasks, and how to avoid hallucinations, both in NLP and Computer Vision fields.
-  **CyberChallenge IT**, CyberSecurity, CyberChallenge IT, Italy.
The CyberSecurity course centered on theoretical and practical activities of attack and defense at the hardware and software level. I was between the 20 selected out of more than 500.

References

Available on Request