

Personal Information



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*Gender*: Male, *Birth Date*: 10/02/1998, *Mother Tongue*: Italian

DEGREE

Master Degree in ICT for Internet and Multimedia at Università degli studi di Padova with a final evaluation of 110/110 cum laude.

PROFESSIONAL EXPERIENCE

- Lab teacher for courses of the ICT for Internet and Multimedia master degree in Università degli studi di Padova. In particular the main courses I covered were:  
1) Neural Networks and Deep Learning (from 1/10/22 to 1/03/22) for a total of 8 lectures (16 hours) plus lab preparation.  
2) Digital Forensics (from 1/03/22 to 1/07/22) for a total of 5 lectures (10 hours) plus lab preparation.
- Stage at Athonet srl from 11/07/2016 to 10/09/2016, as a programmer (C, Python) and from 3/07/2017 to 09/09/2017 as a frontend and backend web developer (Javascript, Typescript, React, Python, flask, SQL).

SCHOOL AND EDUCATION

2021- Ongoing	PhD in Information Engineering at Università degli studi di Padova, with main research topics on learned image and point cloud coding and side projects on fake audio detection and signal processing on data acquired from sensors in BLE devices.
2019-2021	Master Degree in ICT for Internet and Multimedia at Università degli studi di Padova, final evaluation: full marks and honors (110 cum laude). The topic of the final thesis is Point Cloud compression with Auto-encoders
2016-2019	Bachelor Degree in Information Engineering at Università degli studi di Padova, final evaluation: full marks and honors (110 cum laude). The topic of the thesis was information leakage from encrypted traffic generated by IP cameras. This work led to the publication of [C1]

PERSONAL SKILLS

Foreign Languages	Language	Listening	Reading	Speaking	Writing
	English	B2/C1	B2/C1	B2/C1	B2/C1
		Certified by exams taken at the University			
	French	A2	A2	A2	A2
		School level, not certified			

Communication skills Fluency in spoken language thanks to the interaction with English mother tongue relatives, attendance to the ICT master degree fully held in English (2019-2021), cultural exchanges organized by the school (Bordeaux, France, 2011 – Dresden, Germany, 2014).

Computer Skills

- Very good knowledge of C/C++, Python, Java, Latex good knowledge of HTML, CSS, SQL, Javascript/Typescript acquired at school, during the stages and through self-learning.
- Very good knowledge of scientific and machine learning python libraries (with particular focus on computer vision) like *numpy*, *scipy*, *pandas*, *sklearn*, *tensorflow*, *pytorch*, etc...
- Very good git knowledge acquired during the stage and when implementing code for university/personal projects.
- Good knowledge of Blender, Unity (3D modelling and game engine) and basic Photoshop knowledge

OTHER INFO

Awards

- Ph.D. scholarship by Università degli studi di Padova (First in the final ranking), Ph.D. scholarship by Università degli studi di Trento (refused because I accepted the grant in Padova).
- Three times awarded scholarship ‘Mille e una lode’ by Università di Padova 2017/2018 – 2018/2019 – 2020/2021.
- Awarded SEMP Scholarship 2020/2021 with destination: EPFL Lausanne (Switzerland). Refused due to the Coronavirus situation

<b>Conference Publications</b>	<p>[C1] Mari, D., Piazzetta, S. G., Bordin, S., Pajola, L., Verde, S., Milani, S., &amp; Conti, M. (2021, June). Looking Through Walls: Inferring Scenes from Video-Surveillance Encrypted Traffic. In ICASSP 2021-2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) (pp. 2595-2599). IEEE.</p> <p>[C2] Mari D. and Milani S., "Features Denoising for Learned Image Coding," 2022 10th European Workshop on Visual Information Processing (EUVIP), 2022, pp. 1-6, doi: 10.1109/EUVIP53989.2022.9922837.</p> <p>[C3] Mari D., Latora F., Milani S. "The Sound of Silence: Efficiency of First Digit Features in Synthetic Audio Detection", WIFS 2022. [ACCEPTED]</p>
<b>Journal Publications</b>	<p>[J1] Camuffo, E., Mari, D. and Milani, S., 2022. Recent Advancements in Learning Algorithms for Point Clouds: An Updated Overview. Sensors, 22(4), p.1357.</p>
<b>Participation to Seminars</b>	<ul style="list-style-type: none"> <li>• 11-14 September 2022 - "Euvip 2022" in Lisbon with the oral presentation: "Features Denoising for Learned Image Coding".</li> <li>• 5-7 September 2022 - "GTTI meeting" in Padova presenting poster entitled "Content aware compression for LIDAR Point Clouds".</li> <li>• 7-8 February 2022 - "GTTI SPS thematic meeting" in Bardonecchia presenting poster entitled "Content aware compression for LIDAR Point Clouds".</li> <li>• 7 September 2021 - Pitch competition concurring with the presentation: "Syndrome Based Autoencoder for Learned Point Cloud Coding".</li> <li>• 14-20 October 2014 – Conference "What made us human" – Erice, Fondazione Ettore Majorana – Main topic: Human evolution – Language: English –Speakers: Major world exponents on the subject (Ian Tattersal, Giorgio Manzi, etc ...).</li> <li>• 14-17 December 2014 – Conference "EEE :Extreme Energy Events" – Erice, Fondazione Ettore Majorana – Main topic: Cosmic rays and their detection techniques – Language: Italian – Speakers: Italian physicists introduced by prof. Antonino Zichichi</li> </ul>
<b>Courses</b>	<ul style="list-style-type: none"> <li>• 11-15 July 2022 "Summer School on Information Engineering" (SSIE) in Brixen</li> <li>• 2018: Deep Learning Specialization (Coursera) held by Andrew Ng.</li> <li>• 23-29 August 2015 – Summer Math Camp – Olympic Math stage (Number Theory, Combinatorics, Geometry, Algebra) Organized by Mathesis Vicentina – 4th level course - Paderno del Grappa (TV). Teachers: Students and PhD from Università Bocconi di Milano and Scuola Normale di Pisa</li> <li>• 2014 Participation to the European project "Comenius" – Main topic "Teaching Biology in English – DNA Replication, Protein Synthesis and Preimplantation Genetic Diagnosis". The project lasted for 20 days 10 of which were carried out in Italy and the remaining at Christliche Schule, Dresden – Language: English</li> </ul>
<b>Math/CS competitions</b>	<ul style="list-style-type: none"> <li>• Four times national finalist at "Giochi Matematici Bocconi", two times qualified in the first 50</li> <li>• Semi-finalist in the "Olimpadi di matematica a squadre", Cesenatico 2015</li> <li>• Two times qualified to the semifinals for the "Olimpiadi di Informatica".</li> <li>• Google Hash Code optimization challenge in 2019, 2020, 2021 (1377 position in the world).</li> </ul>
<b>Driving License</b>	A1 e B
<b>Other</b>	<ul style="list-style-type: none"> <li>• PhD students representative in the Department Council from 01/2022 to 01/2024</li> <li>• 2015 Basic Life Support – Supporto base delle funzioni vitali secondo le linee guida IRC – Ilcoor 2010</li> <li>• AVIS blood donor</li> <li>• Volleyball player</li> </ul>

Date: 06/09/22

*Daniela Mori*