

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. Currently Ph.D. student in information engineering at Università degli studi di Padova researching on the topic of learned point cloud coding

PROFESSIONAL EXPERIENCE

- Lab teacher for the Digital Forensics course of the ICT for Internet and Multimedia master degree in Università degli studi di Padova from 1/03/2022 to 1/07/2022 for a total of 10 hours of lectures plus the time required to prepare the experiences.
- 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

- 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 <i>Certified by exams taken at the University</i>	B2	B2	B2
	French	A2	A2	A2	A2 <i>School level, not certified</i>

**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, Javascript/Typescript, good knowledge of HTML, CSS, SQL, Latex 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

**Conference Publications**

[C1] Mari, D., Piazzetta, S. G., Bordin, S., Pajola, L., Verde, S., Milani, S., & 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.

[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.

[C3] Mari D., Latora F., Milani S. "The Sound of Silence: Efficiency of First Digit Features in Synthetic Audio Detection", WIFS 2022. [ACCEPTED]

<b>Journal Publications</b>	[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.
<b>Participation to Seminars</b>	<ul style="list-style-type: none"> <li>• 11-14 September 2022 - "Euvisp 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> </ul>

Date: 31/08/22

