

PERSONAL INFORMATION



Filippo Luigi Maria Milotta

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RG https://www.researchgate.net/profile/Filippo_Milotta

Sex Male | Date of birth ##### | Nationality Italian

PERSONAL STATEMENT

Ph.D. Candidate in Mathematics and Computer Science

EDUCATION AND TRAINING

2014 - present

Ph.D. Candidate in Mathematics and Computer Science XXX Cycle

EQF:8

University of Catania – grant by Telecom Italia, Joint Open Lab WAVE (Wireless Applications in multi-deVice Ecosystems).

- Research Field: “**Multi-device media analysis and summarization for high bandwidth connected environments**”
- Supervisor: Prof. Sebastiano Battiato, University of Catania
- Co-supervisor: Prof. Filippo Stanco, University of Catania

2/2017 – 8/2017

Visiting Scholar

Center for Virtualization and Applied Spatial Technologies (CVAST)
University of South Florida – USF, Tampa, Florida, USA

2013 - 2014

Master Degree in Computer Science (LM18), summa cum laude

EQF:7

University of Catania – Department of Mathematics and Computer Science

- All exams passed with 30/30 rate and 10/11 laudes
- Thesis: “Depth-map based obstacle detection for visually impaired”

2009 - 2012

Bachelor Degree in Computer Science (L31), summa cum laude

EQF:6

University of Catania – Department of Mathematics and Computer Science

- Thesis: “Detection and correction techniques concerning magnetic tapes artefacts”

TEACHING EXPERIENCE

a.y. 2014/15, 2016/17

Multimedia

University of Catania, Department of Mathematics and Computer Science (*Graduate Students*)

- Module on “Video media and Motion stimulation” (18 hours).

a.y. 2014/15

Computer Vision

University of Catania, Department of Mathematics and Computer Science (*Graduate Students*)

- Module on “Epipolar Geometry and Stereoscopy” (6 hours);
- Seminar on “3D scan technologies”.

a.y. 2016/17

Pattern Recognition

University of Catania, Department of Mathematics and Computer Science (*Graduate Students*)

- Seminar on “k-nn clustering”;
- Seminar on “Bayesian Networks: d-separation and applications”.

a.y. 2015/16

Human Interaction and Multimedia

University of Catania, Department of Mathematics and Computer Science (*Undergraduate Students*)

- Module "Common image formats: definitions and specs".

a.y. 2015/16

Digital Game Development

University of Catania, Department of Mathematics and Computer Science (*Undergraduate Students*)

- Module "Learning curve and User experience".

SUPERVISION OF STUDENTS

5. Michele Bellocchi, "Design and development of new features and applications for The Social Picture Framework", University of Catania, Department of Mathematics and Computer Science, M.Sc. thesis in Computer Science (co-supervisor). 2017

4. Mirko R. Aiello, "Photogrammetry and applications: 3DCSI, a software for exploration, marking and automatic report of crime scenes", University of Catania, Department of Mathematics and Computer Science, M.Sc. thesis in Computer Science (co-supervisor). 2017

3. Islam Seddek, "Digital Documentation and Preservation of Antique Books" University of Catania, Department of Mathematics and Computer Science, and Cairo University, thesis in Master In Conservation Of Antique Photographs And Paper Heritage (co-supervisor). 2017

2. Giuseppe Leotta, "Watermarking algorithms for authenticity and integrity of digital media and copyright protection", University of Catania, Department of Mathematics and Computer Science, M.Sc. thesis in Computer Science (co-supervisor). 2016

1. Alessandro Nicolosi, "3D Viewer of Morgantina Silver Treasure", University of Catania, Department of Mathematics and Computer Science, B.Sc. thesis in Computer Science (co-supervisor). 2015

WORK EXPERIENCE

14/4/2014 – 13/7/2014

Internship

EuroMECC S.R.L. – Via S.S. 192, Km 79, Misterbianco (CT)

- Content Web Manager and Web Designer
- Computer Programmer

Business or sector Information Technology

10/2011 – 1/2012

Internship

Fondazione Museo Diocesano di Catania – Image Processing Laboratory (IPLab)

- Scanning and digitization of ancient 3D objects and photos
- Post-processing of old photos with artefacts

Business or sector Image Processing, Cultural Heritage Digitization

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B1	B1
Exam passed during the BD course in Computer Science (L31), University of Catania, 27/6/2011 (Level B1)					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Common European Framework of Reference for Languages

Communication skills

- Good cooperation skills gained within the company Euromecc in which was required to collaborate with colleagues from different countries (e.g., Russia, French, Spain)
- Good international communication skills gained with the organization of several summer schools.

Organisational / managerial skills

- Autonomy in the workload management gained within the company Euromecc

PUBLICATIONS

Chapters in Books

- B03** – Milotta F.L.M. in press, *Virtual Restoration Techniques of Antique Photographs*, in M.F. Ali, E. Ciliberto, M. Ali (eds.), *Photographic Conservation*. (co-authored with F. Stanco, G. Ramponi, S. Carrato, D. Allegra)
- B02** – Milotta F.L.M. 2015, *Hand Held 3D Scanning for Cultural Heritage: Experimenting Low Cost Structure Sensor Scan*. In: *Handbook of Research on Emerging Technologies for Architectural and Archaeological Heritage*. IGI Global, 2017. p. 475-499. (co-authored with D. Allegra, G. Gallo, L. Inzerillo, M. Lombardo, C. Santagati, F. Stanco)
- B01** – Milotta F.L.M. 2015, *Un approccio multidisciplinare per lo studio di un Tesoro unico al mondo. Gli argenti della casa di Eupolemo a Morgantina*, in L. Maniscalco (eds.), *Morgantina duemilaquindici. La ricerca archeologica a sessant'anni dall'avvio degli scavi*. (co-authored with F. Stanco, G. Ramponi, S. Carrato, D. Allegra)

Journals

- J03** – Milotta, F.L.M. 2017, *Virtual anastylosis of Greek sculpture as museum policy for public outreach and cognitive accessibility*. *Journal of Electronic Imaging*, 2017, 26.1: 011025-011025. (co-authored with F. Stanco, D. Tanasi, D. Allegra, G. Lamagna, G. Monterosso)
- J02** – Milotta F.L.M. 2017, *Integrated three-dimensional models for noninvasive monitoring and valorization of the Morgantina silver treasure (Sicily)*. *Journal of Electronic Imaging*, 2017, 26.1: 011015-011015. (co-authored with M.F. Alberghina, F. Alberghina, D. Allegra, F. Di Paola, L. Maniscalco, G. Milazzo, L. Pellegrino, S. Schiavone, F. Stanco)
- J01** – Milotta F.L.M. 2016, *Tracking error in digitized analog video: automatic detection and correction*. *Multimedia Tools and Applications*, 2016, 75.7: 3733-3746. (co-authored with F. Stanco, D. Allegra)

Conferences Proceedings

- C14** – Milotta F.L.M. 2017, *The Social Picture: Advanced Image Analysis Applications*, in proceedings of *Smart Tools and Applications in Graphics (STAG)*, 2017. (co-authored with M. Bellocchi, S. Battiato)
- C13** – Milotta F.L.M. 2017, *A digital approach for the study of Roman signacula from Syracuse, Sicily*, in proceedings of *Smart Tools and Applications in Graphics (STAG)*, 2017. (co-authored with D. Tanasi, I. Gradante, F. Stanco, H. Kaplan)
- C12** – Milotta F.L.M. 2017, *ARCA (Automatic Recognition of Color for Archaeology): a Desktop Application for Munsell Estimation*, in proceedings of the 19th International Conference on Image Analysis and Processing (ICIAP), 2017. (co-authored with F. Stanco, D. Tanasi)
- C11** – Milotta F.L.M. 2017, *Description of Breast Morphology through Bag of Normals Representation*, in proceedings of the 19th International Conference on Image Analysis and Processing (ICIAP), 2017. (co-authored with D. Allegra, D. Sinitò, F. Stanco, G. Gallo, W. Taher, G. Catanuto)
- C10** – Milotta F.L.M. 2017, *Organizing Videos Streams for Clustering and Estimation of Popular Scenes*, in proceedings of the 19th International Conference on Image Analysis and Processing (ICIAP), 2017. (co-authored with S. Battiato, G.M. Farinella, A. Ortis, F. Stanco, V. D'Amico, L. Addesso, G. Torrisi)
- C09** – Milotta F.L.M. 2016, *3D Digital Imaging for Knowledge Dissemination of Greek Archaic Statuary*, in G. Pintore, F. Stanco (eds), *STAG: Smart Tools and Apps in computer Graphics*, Eurographics Proceedings, Genova 3-4 October 2016, The Eurographics Association, pp. 133-141 (co-authored with F. Stanco, D. Allegra, D. Tanasi)
- C08** – Milotta F.L.M. 2016, *Low cost handheld 3D scanning for architectural elements acquisition*, in G. Pintore, F. Stanco (eds), *STAG: Smart Tools and Apps in computer Graphics*, Eurographics Proceedings, Genova 3-4 October 2016, The Eurographics Association, pp. 127-131. (co-authored with D. Allegra, G. Gallo, L. Inzerillo, M. Lombardo, C. Santagati, F. Stanco)
- C07** – Milotta F.L.M. 2016, *Breast Shape Parametrization Through Planar Projections*. In: *International Conference on Advanced Concepts for Intelligent Vision Systems*. Springer International Publishing, 2016. p. 135-146. (co-authored with D. Allegra, G. Catanuto, G. Gallo, Y. Gholizade Atani, F. Stanco)
- C06** – Milotta F.L.M. 2016, *The Social Picture*. In: *Proceedings of the 2016 ACM on International Conference on Multimedia Retrieval*. ACM, 2016. p. 397-400. (co-authored with S. Battiato, G.M. Farinella, A. Ortis, L. Addesso, A. Casella, V. D'Amico, G. Torrisi)
- C05** – Milotta, F.L.M. 2016, *RECFusion: Automatic Scene Clustering and Tracking in Videos from Multiple Sources*. *Electronic Imaging*, 2016, 2016.7: 1-6. (co-authored with S. Battiato, F. Stanco, V. D'Amico, G. Torrisi, L. Addesso)

- C04** – Milotta F.L.M. 2015, *Archaeometric characterization and 3D survey: new perspectives for monitoring and valorisation of Morgantina silver Treasure (Sicily)*. In: In Proceedings of 1st International Conference on Metrology for Archaeology. 2015. (co-authored with M.F. Alberghina, F. Alberghina, D. Allegra, F. Di Paola, L. Maniscalco, S. Schiavone, F. Stanco)
- C03** – Milotta F.L.M. 2015, *Virtual unrolling using X-ray computed tomography*. In: Signal Processing Conference (EUSIPCO), 2015 23rd European. Institute of Electrical and Electronic Engineers (IEEE), 2015. p. 2864-2868. (co-authored with D. Allegra, E. Ciliberto, P. Ciliberto, G. Petrillo, F. Stanco, C. Trombatore)
- C02** – Milotta F.L.M. 2015, *An electronic travel aid to assist blind and visually impaired people to avoid obstacles*. In: International Conference on Computer Analysis of Images and Patterns. Springer International Publishing, 2015. p. 604-615. (co-authored with D. Allegra, F. Stanco, G.M. Farinella)
- C01** – Milotta F.L.M. 2013, *Detection and correction of Mistracking in digitalized analog video*. In: International Conference on Image Analysis and Processing. Springer Berlin Heidelberg, 2013. p. 218-227. (co-authored with F. Stanco, D. Allegra)

- Patent** **P01** – Milotta F.L.M. 2017, (provisional) Automatic Digital Method for Classification of Colors in Munsell Color System, which was filed with the United States Patent and Trademark Office on April 19, 2017, and assigned Serial No. 62/487,178.(co-authored with F. Stanco, D. Tanasi)

- Summer Schools**
- IEEE – Eurasp Summer School on Signal Processing (S3P – 2016): “Semantics in Media”. 4/9/2016 – 10/9/2016.
 - Medical Imaging Summer School (MISS '16): “Medical Imaging meets Machine Learning”. 31/7/2016 – 6/8/2016 (attended as student and staff member)
 - International Computer Vision Summer School (ICVSS '16): “Computer Vision: What Happens Next?”. 17/7/2016 – 23/7/2016 (attended as student and staff member)
 - International Computer Vision Summer School (ICVSS '15): “Learning to see”. 12/7/2015 – 18/7/2015 (attended as student and staff member)
 - Medical Imaging Summer School (MISS '14): “Medical Imaging meets Computer Vision”. 28/7/2014 – 1/8/2014 (attended as student and staff member)
 - International Computer Vision Summer School (ICVSS '14): “From Fundamentals to Applications”. 13/7/2014 – 19/7/2014 (attended as student and staff member)
 - International Computer Vision Summer School (ICVSS '12): “3R's of Computer Vision: Recognition, Registration, Reconstruction”. 15/7/2012 – 21/7/2012 (attended as student and staff member)

- Memberships**
- Ph.D. Student member of IPLab (Image Processing Laboratory), University of Catania.
Link: <http://iplab.dmi.unict.it/>
 - Ph.D. Student member of TIM JOL WAVE (Joint Open Lab Wireless Applications in multi-deVice Ecosystems)
 - Member of Computer Applications & Quantitative Methods in Archaeology (CAA)
 - IEEE Signal Processing Society Membership, member number: 93903598

- Digital competence**
- Proficiency SQL programmer
 - Proficiency JAVA programmer
 - Proficiency MATLAB programmer
 - Proficiency in 3D Scanning for Cultural Heritage Digitization and Medical Imaging
 - Good C, C++ and C# programmer

ANNEXES

- Machine Learning by Stanford University on Coursera. Certificate earned on May 28, 2016
Link: <https://www.coursera.org/account/accomplishments/records/GNEECHXFUD5W>
- Biomedical Investigators and Key Personnel, CITI Program, earned on Oct 1, 2017
Link: <https://www.citiprogram.org/verify/?w2bf2c6fe-4601-4e79-94a7-fb21f7ef962b-24454552>

Date 10/07/2017