



Sofia Marilina Glorioso

Short CV as of May, 2026

Sofia Marilina Glorioso received the Bachelor's Degree in Computer Engineering (2022) and the Master's Degree in Artificial Intelligence and Computer Security Engineering (2024, *summa cum laude*) from the University of Enna "Kore". Her expertise is grounded in a solid classical foundation, culminating in her 2019 high school diploma with honours.

Currently, she is a second-year PhD student in Intelligent Systems for Engineering at the University of Enna "Kore", with a research project on the optimisation of artificial neural networks and multimodal data for devices with reduced resources. For this project, she obtained a scholarship co-funded by STMicroelectronics (Catania, Italy), where she carries out periods of research internship.

As part of her PhD programme, she is spending a period as a visiting PhD Student at the University of Glasgow (UK), where she is exploring applications of her research topics on human-machine interaction and usable security (March – June 2026).

During her curricular studies for both the Bachelor's and Master's degrees, she studied cybersecurity, vulnerability and protection of systems and networks, cryptography technologies and methods, as well as biometric authentication, with a particular focus on iris and retina recognition.

Her research interests are in artificial intelligence and multimodal systems, optimisation of neural networks for resource-constrained devices, intelligent interfaces, usable and secure human-machine interaction, human-centred design and applications.

As a result of her research activities, she published and presented scientific papers as a speaker at relevant, high-ranked international conferences, with contributions in the fields of multimodal intelligent systems and applications for Human-Computer Interaction, usable and secure authentication, and e-healthcare environments.

She actively contributes to the international scientific community as a member of organising and scientific committees, and, in particular, she served as Student Volunteers Chair at the 24th International Conference on Mobile and Ubiquitous Multimedia (MUM 2025), held in Enna from 1st to 4th December 2025 (<https://www.mum-conf.org/2025/index.php?web=committee>).

Since 2026, she has been an expert in Information Processing Systems at the University of Enna "Kore".

Publications

- [1] Andrea Pietro Arena, Sofia Marilina Glorioso, and Salvatore Sorce. 2026. User-Friendly Design of Distributed Systems: A Visual Interface for Composing Networks of Personal Devices. In Proceedings of 18th International Conference on Advanced Visual Interfaces (AVI 2026). ACM, New York, NY, USA, 5 pages. <https://doi.org/10.1145/3811427.3811477>
- [2] S. M. Glorioso, G. Pappalardo, S. Sorce and V. Conti. AI-Enhanced Intelligent Interfaces for Secure Biometric Authentication in IoT Ecosystems: Recent Advances and Future Directions. 2026 International Conference on Semantic Computing (ICSC), Laguna Hills, CA, USA, 2026, pp. 312-319, doi: 10.1109/ICSC67292.2026.00052
- [3] Salvatore Sorce and Sofia Marilina Glorioso. 2026. Repurposing Legacy Devices into a Distributed and Pervasive Display Ecosystem. In International Conference on Pervasive Displays (PerDis '26), March 16–18, 2026, Munich, Germany. ACM, New York, NY, USA, 3 pages. <https://doi.org/10.1145/3797993.3798030>
- [4] Salvatore Sorce and Sofia Marilina Glorioso. 2025. Internet of Legacy Devices (I-oLD): Harnessing the Potential of Outdated Mobile Devices. In Proceedings of the 24th International Conference on Mobile and Ubiquitous Multimedia (MUM '25). ACM, New York, NY, USA, 467–469. <https://doi.org/10.1145/3771882.3773954>
- [5] Sofia Marilina Glorioso, Salvatore Sorce, and Antonio Esposito. 2025. Gaze and stress-based evaluation of pilot's attention during flight: a preliminary study. In Proceedings of the 16th Biannual Conference of the Italian SIGCHI Chapter (CHIItaly '25). Article 101, 1–3. <https://doi.org/10.1145/3750069.3755959>
- [6] Cilia, N. D., Garraffa, G., Glorioso, S. M., Cammarata, V., & Sorce, S. (2025). Toward a Virtual Environment for Rehabilitation: Early Design and Integration Perspectives. In EMPATH-IA workshop at CHIItaly 2025, <https://ceur-ws.org/Vol-4040/paper4.pdf>.
- [7] Glorioso S.M., Optimisation of neural networks for applications based on multimodal data fusion running on MCUs and MPUs, (2024) ACM International Conference Proceeding Series, pp. 552 – 554, DOI: 10.1145/3701571.3703598

