Andrea Corriga, Ph.D.

Last update on November 01, 2026

Skills Keywords Summary: C, C++, C#, PHP, Java, JavaScript, Node, Python, HTML5, CSS3 | CodeIgniter, Spring Boot, Framework7, Vue, jQuery, Vite, Capacitor, Electron, Bootstrap, Tailwind, Flask, FastAPI, Strapi | MySQL, MongoDB | Sass, Less, Machine Learning, Reinforcement Learning, Generative AI, RAG, TAG, LLMs, Keras, TensorFlow, Scikit-learn, Pandas, NumPy | Microsoft Azure, Amazon AWS, Google Cloud Platform, Firebase.

Work Experience

(2026-present) Strifelab (Freelance)

- **Owner**
  - Provide independent consulting services to clients across multiple industries, delivering custom software, mobile applications, web platforms, and AI solutions, with direct responsibility for client relationships, technical direction, and commercial proposals.
  - Lead the design and development of AI-powered products, including generative AI and LLM-based applications (RAG, conversational agents, document and data querying), as well as deep learning solutions for computer vision and classification tasks.
  - Manage the full project lifecycle on each engagement, from requirements analysis and technical scoping to architecture design, delivery, and post-release support, working directly with clients to ensure quality and alignment with business goals.

(2021-2025) *Visioscientiae Srl*

- **Partner & COO**
  - Collaborated with the CEO in strategic and **operational decision-making**, as well as in key client interactions to ensure alignment between **business objectives** and **delivery capabilities**.
  - Coordinated the work of a cross-functional team of thirty employees, spanning software development, DevOps, and product management. Took direct ownership of task planning and execution, ensuring timely delivery across multiple projects.
  - Designed tailored software solutions and cloud architectures, while reviewing technical estimates and producing accurate economic proposals aligned with project scope and resource planning.
- **Delivery Manager & AI Engineer**
  - Managed several development projects, ensuring both timely delivery and high quality.
  - Designed and implemented a product leveraging **artificial intelligence**, including **generative AI** and open-source **LLMs**, to create conversational agents. Starting from a natural language prompt, these agents perform document searches using **RAG** technologies and database querying using **TAG** technologies with high precision and efficiency.
  - Led projects involving **AI-based deep learning** for **classification** and **computer vision** tasks for a global leader in healthcare laboratory automation, contributing to the development and deployment of robust image recognition solutions.
- **Full Stack Software Engineer**

  Developed end-to-end software solutions, contributing to both the back-end and front-end components to ensure scalability, maintainability, and alignment with technical and business requirements.

  - **Back-end:** Developed RESTful microservices primarily using Node.js, with a strong emphasis on code quality and system performance. Solutions often involved the use of relational and non-relational databases, JWT-based authentication, asynchronous processing, and real-time communication via WebSockets.
  - **Front-end:** Built responsive, mobile-first, and user-centric front-end interfaces using modern frameworks such as Vue.js. Employed a component-based architecture and integrated UI libraries including Bootstrap and Tailwind CSS to ensure consistency, reusability, and an optimal user experience across devices.

(2023-2025) *TheCloudAlchemist Srl*

- **Partner & Product Manager**

- Directed the development of the company's flagship product, a cloud cost monitoring platform designed to optimize and control expenses across services such as **AWS** and **Azure**. A key feature is its integration with generative **AI conversational agents**, enabling users to interact with the system in natural language to generate reports, extract insights, and obtain actionable recommendations in real time.

(2018-2022) *University of Cagliari*

- **Ph.D. Student - AI & Data Engineer**
  - Designed and developed **deep learning** and **reinforcement learning** algorithms for financial forecasting as the main focus of the Ph.D. thesis.
  - Designed and developed a brand-new framework called HawkEye, combining output data coming from neural networks with front-end technologies following the recent trend of interpretable AI.
  - Built a **real-time trading framework**, combining multiple technologies in a pipeline to connect trading signals from deep learning algorithms with the broker.

(2015-2018) Microsoft Italy

- **Sardinian Team Leader for Microsoft Student Partner program**
  - Main organizer and speaker at the following university events: Academic Opening Meeting (2015), Global Azure Bootcamp (2015), Microsoft Azure for Dreamspark Academic Tour (2016), Game Dev Tour (2016).
  - Provided technical support to students for the following technologies: Microsoft Azure, Microsoft Universal Windows Platform App, Windows and Windows Phone 8/10 SDK, Microsoft Dreamspark.

(2016) *CICT*

- **Internship**
  - Developed in-house software for real-time monitoring of industrial vehicles in JavaScript.

Education & Academic Career

- (2018-2022) *University of Cagliari*, **Ph.D. in Machine Learning with a thesis** entitled: Artificial Intelligence Approaches Applied to the Financial Forecasting Domain.

- (2016-2018) *University of Cagliari*, **Master of Science in Computer Science with a thesis entitled: A Cross-**Platform Application About Precision Farming. 110/110, GPA 29.2/30

- (2013-2016) *University of Cagliari*, **Bachelor of Science in Computer Science with a thesis entitled: An Application** for Logistics Platform Container Management.

Publications

Published 7 peer-reviewed papers, with an **h-index** of 5 and 500+ **citations** (2025). More details and the full list of publications are available on **Google Scholar** at: https://scholar.andreacorriga.com.

1. Barra, S., Carta, S., Corriga, A., Podda, A. S., Recupero, D.R. ***"Deep Learning and Time Series-to-Image Encoding for Financial Forecasting"*** (2020) Published in IEEE/CAA Journal of Automatica Sinica, 7 (3), art. no. 9080613, pp. 683-692.
2. Carta, S., Corriga, A., Ferreira, A., Podda, A.S., Recupero, D.R. "***A multi-layer and multi-ensemble stock trader using deep learning and deep reinforcement learning***" (2020) Published in Applied Intelligence.
3. Carta, S., Consoli, S., Corriga, A., Dapiaggi, R., Podda, A.S., Recupero, D.R. ***"HawkEye: a Visual Framework for Agile Cross-Validation of Deep Learning Approaches in Financial Forecasting***" (2020) to appear in ICFNDS '20 Proceedings - ACM ICPS.
4. Carta, S., Corriga, A., Ferreira, A., Recupero, D.R., Saia, R. "***A holistic auto-configurable ensemble machine learning strategy for financial trading"*** (2019) Published in Computation, 7 (4), pp. 1-25.
5. Carta, S., Corriga, A., Mulas, R., Recupero, D.R., Saia, R. ***"A supervised multi-class multi-label word embeddings approach for toxic comment classification"*** (2019) Published in Proceedings of IC3K 2019, 1, pp. 105-112.
6. Corriga, A., Cusimano, S., Malloci, F.M., Marchesi, L., Recupero, D.R. "***Leveraging cognitive computing for gender and emotion detection***" (2018) Published in CEUR Workshop Proceedings, 2111, pp. 47-56.

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7. Carta, S.M., Chessa, S., Contu, G., Corriga, A., Deidda, A., Fenu, G., Frigau, L., Giuliani, A., Grassi, L., Manca, M.M., Marras, M., Mola, F., Mossa, B., Mura, P., Ortu, M., Piano, L., Pisano, S., Pisu, A., Podda, A.S., Pompianu, L., Seu, S., Tiddia, S.G. "**LIMBA: An Open-Source Framework for the Preservation and Valorization of Low-Resource Languages using Generative Models**" (2025) arXiv preprint arXiv:2411.13453

Professional Service

Participated as Technical Program Committee member for the following conferences:

- The First International Workshop on Artificial Intelligence Methods for Smart Cities (AISC 2021)
- The 22nd IEEE International Conference on High Performance Computing and Communications (HPCC-2020)
- The Second International Workshop on Biometrics-as-a-Service (IWBAAS 2019)
- The 7th International Conference on Smart City and Informatization (ISCI 2019)

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