

Giulia Vitello

Biomedical Engineer | Clinical Research Coordinator

PROFILE

Biomedical Engineer with professional experience in clinical research and clinical data management. Currently working as a Clinical Research Coordinator at the National Cancer Institute of Milan, I coordinate both industry-sponsored and investigator-initiated clinical trials in thoracic oncology, supporting study conduct from site activation through patient follow-up in compliance with ICH-GCP guidelines and study protocols.

I collaborate daily with investigators, sponsors, CROs, monitors, study nurses, pharmacists and laboratories, contributing to patient visit coordination, regulatory documentation, Investigator Site File (ISF) maintenance, eCRF and IWRS management, query resolution, biological sample logistics, and audit and inspection readiness. This role has allowed me to develop a solid understanding of clinical trial operations, regulatory requirements and site management within a highly regulated environment.

My background in Biomedical Engineering, combined with hands-on experience in clinical research, has strengthened my attention to detail, organizational skills and ability to manage multiple clinical studies simultaneously while ensuring data quality, protocol compliance and effective cross-functional collaboration.

EDUCATION

10/2025 – 02/2026
Clinical Research Training Course, Clinical Research Lab
40-hour training program compliant with the Italian Ministerial Decree (15/11/2011), covering clinical trial methodology, ICH-GCP, GMP, clinical trial regulations, monitoring activities (SIV, IMV and COV), investigator responsibilities, essential documents, quality management systems, audit and inspection readiness, and Risk-Based Monitoring (RBM)

2022 – 2025
Pavia, Italy
BIOENGINEERING - Digital Health (LM - 21), Master's Degree at University of Pavia
Advanced education in biomedical engineering with a focus on healthcare technologies, medical data analysis, biostatistics, clinical engineering, regulatory affairs and digital health. Developed strong analytical and problem-solving skills through multidisciplinary projects involving healthcare data management, medical software and evidence-based healthcare innovation.
Degree grade: 110/110

2018 – 2022
Pavia, Italy
BIOENGINEERING (L - 8), Bachelor's Degree at University of Pavia
Education focused on biomedical sciences, medical statistics, clinical engineering, healthcare informatics and biomedical data analysis, providing a solid foundation for clinical research and evidence-based medicine.
Degree grade: 108/110

2013 – 2018
Agrigento, Italy
HIGH-SCHOOL DIPLOMA, Scientific High School Leonardo

PROFESSIONAL EXPERIENCE

03/2026 – Present
Milan, Italy
Clinical Research Coordinator, Fondazione IRCCS Istituto Nazionale dei Tumori
Coordinate the operational management of industry-sponsored and investigator-initiated Phase I–IV clinical trials in thoracic oncology, ensuring compliance with study protocols, ICH-GCP guidelines and institutional procedures. Manage clinical trial documentation, including Investigator Site Files (ISF), essential documents, regulatory binders and study records, ensuring continuous inspection and audit readiness. Perform clinical data management activities through multiple Electronic Data Capture (EDC) systems and IWRS platforms, including eCRF completion, query resolution, data review and quality control. Collaborate daily with investigators, study nurses, pharmacists, laboratories, sponsors, CROs and monitors to coordinate patient visits, investigational product logistics and biological sample management. Support site initiation, monitoring and close-out activities by preparing study documentation, resolving findings and ensuring protocol compliance throughout the study lifecycle. Contribute to SAE documentation, regulatory submissions and timely completion of study milestones while maintaining high standards of data integrity and patient safety.

06/2025 – 01/2026
Monza, Italy
Data Engineer, Quantyca - Data at Core
Designed, developed and maintained data pipelines and relational databases to support business applications, ensuring data integrity, consistency and quality throughout the data lifecycle. Performed data validation, quality control and troubleshooting activities using SQL and database management tools, contributing to reliable and accurate datasets. Collaborated with internal stakeholders to gather business requirements, translate them into technical solutions, and produce structured technical documentation. Supported data governance initiatives through monitoring, database maintenance, issue resolution, and validation of data processing workflows.

2020 – Present

Holiday Home Manager
Management of administrative and operational activities of a family-operated holiday home, including booking coordination, guest communication, scheduling, and on-site organization. Ensured smooth daily operations, accurate handling of documentation and payments, and effective communication with guests and external service providers, maintaining high organizational standards and problem-solving in dynamic situations.

06/2025 – 07/2025

Student Collaboration, University of Pavia
Coordination of orientation activities within the PCTO (Percorsi per le Competenze Trasversali e l'Orientamento) program, acting as a liaison between university departments, instructors, and participants. Organization of schedules, activities, and communications to ensure the smooth execution of multi-class educational initiatives, alongside structured support to students' learning paths through clear and effective communication.

PROJECTS

09/2024 – 03/2025

Master's Thesis Abroad, Polythechnic University of Madrid (UPM)
During my Erasmus traineeship, I contributed to the PROTECT-CHILD European project within a multidisciplinary team of medical, technical, and legal experts. I supported the development of a protocol for secure and privacy-preserving clinical research, focusing on data governance, regulatory compliance, and research workflow design. This experience strengthened my skills in multidisciplinary research, scientific documentation, and protocol development within an international research environment. The results of this work are currently under peer review for publication in a scientific journal.

2024

AI In-course Project | University of Pavia
Development of an AI-based decision support tool focused on Obstructive Sleep Apnea (OSA), aimed at structuring clinical knowledge and supporting diagnostic and therapeutic pathways. The project involved the creation of a disease ontology based on clinical guidelines, using Protégé to formalize diagnostic criteria and treatment options, and the implementation of decision workflows through Composer and YAWL. This experience strengthened my ability to work with clinical guidelines, structured clinical data, and decision-making processes, supporting consistency, traceability, and clarity in clinical reasoning.

2023

Computational Learning In-Course Project | University of Pavia
Development of a machine learning workflow for the analysis and classification of mammographic data, aimed at distinguishing benign and malignant masses based on multiple clinical and imaging-related attributes. The project involved working with structured datasets, feature analysis, model evaluation, and interpretation of results using Orange and MATLAB.This experience reinforced a data-quality-oriented and methodical approach to medical data analysis, with particular attention to accuracy, reproducibility, and correct interpretation of results in a clinical context.

TECHNICAL SKILLS

- Programming & Data: Python, SQL, R, Java, MATLAB, C, GitLab, GitHub
- Bioimmaging Tools: ImageJ, 3D Slicer
- Data Analysis & Decision Support: Orange, TreeAge
- Al tools (Protégé, Composer, Yawl)
- AI & Knowledge Modeling: Protégé, Composer, YAWL
- Database & Data Management: Relational Databases, Data Governance, Data Quality Control, REDCap
- Clinical Research & Study Management: ICH-GCP, Clinical Trial Management, eCRF Systems, IWRS, Study Documentation (ISF), Monitoring Visits, Audit Preparation, Clinical Data Collection, Data Quality Assurance
- Microsoft Office programs: Word, Excel, PowerPoint
- "B" Driving License

LANGUAGES

Italian

English

Spanish

Certificates

ICH GOOD CLINICAL PRACTICE E6 (R3), The Global Health Network - 05/03/2026
Completed the ICH Good Clinical Practice (GCP) E6(R3) Certificate of Completion, with a focus on ethical and regulatory standards in clinical research, informed consent, data governance, risk-based monitoring and quality by design
Score: 100%

Declaration

I authorize the processing of my personal data present in this curriculum vitae pursuant to Legislative Decree 30 June 2003, n. 196 and of the GDPR (EU Regulation 2016/679)