

Roberto Gallea

IT Developer and Architect

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Citizenship Italian

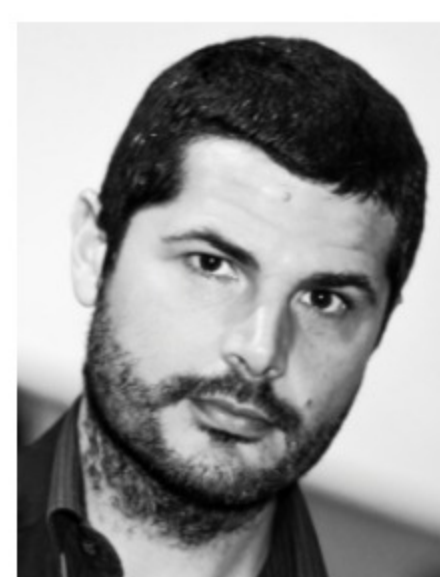
Place of birth Palermo, Italy

WWW robertogallea.com

Date of birth 19/02/1983

LinkedIn linkedin.com/in/robertogallea

GitHub github.com/robertogallea



IT designer and developer with 10+ years of experience. Efficiency- and effectiveness-oriented, proficient at transposing ideas to systems in a practical way. Working in a public administration, but with an enterprise mindset

Experience

- 06/2020 - present **University Secretariat Administrator**
Università degli Studi di Palermo
 - Interface between Secretariat and Information System
 - Students' registry maintainer
 - International Students Administration
- 07/2017 - 06/2020 **Identity manager**
Università degli Studi di Palermo
 - SAML-based Single Sign On (SSO) infrastructure creation and management
 - Identity Provider (IDP) management
 - internal Service Providers (SP) management
- 07/2017 - present **Data warehouse manager**
Università degli Studi di Palermo
 - Designer of Data Warehouse
 - Designer and developer of ETL procedure for DW population
- 02/2018 - present **GDPR work group member**
Università degli Studi di Palermo
 - Design of GDPR-compliant policies
 - Records of processing activities creation and maintenance
 - Design of data breach procedures
- 07/2015 - 07/2017 **Scholarship**
Università degli Studi di Palermo
 - Design and development of a pilot project for document management
 - Design, development and management of computer systems and applications

Education

- 04/2020 - 05/2021 **Università degli Studi di Palermo**
Professional Master 2nd level - Data Science and Big Data Analytics
- 10/2018 - 06/2019 **Università Unitelma La Sapienza**
Professional Master Governance, Management, e-Government in Public Administrations
- 01/2008 - 04/2011 **Università degli Studi di Palermo**
 - Ph.D in Computer Science
 - subject: Digital Image and Video Processing
 - Thesis subject: Fuzzy Kernel Regression for Registration and other Image Warping Applications
- 2001 - 2007 **Università degli Studi di Palermo**
 - Master Degree in computer Science - cum laude
 - Thesis subject: Belief-Desire-Intention (BDI) agent systems - Design and implementation of a web based java application with fuzzy rules and logic inference system
- 1996 - 2001 **L.S.S. S. Cannizzaro**
 - High School degree (scientific course)

Additional Activities

- 2018 - present **TED/TEDx**
Organizator and curator of TEDxCarini, an independently organized TED event - <http://www.tedxcarini.com/>

Skills

Web, Mobile and Desktop software development	●●●●● Advanced
Database administration	●●●●● Experienced
Single Sign-on Systems management (Shibboleth, SamlPHP, CAS)	●●●●● Advanced
Electronic prototyping (Arduino, Raspberry, Teensy, ...)	●●●●● Experienced
Scientific computation	●●●●● Experienced
Linux system management	●●●●● Experienced
Public speaking	●●●●● Experienced
Scientific paper writing	●●●●● Experienced

Languages

Italian	●●●●● Native language
English	●●●●● C1
Spanish	●●●●● B1

Programming languages and systems

PHP (Laravel)	●●●●●
Python and R for Statistics and Data Science	●●●●●
Javascript (Angular, Ionic)	●●●●●
HTML/CSS (Bootstrap, Tailwind)	●●●●●
Java	●●●●●
C/C++	●●●●●
Relational DBMS (MySQL, Oracle, MSSQL)	●●●●●
NoSQL DBMS (MongoDB, Firebase, Redis, Memcached)	●●●●●
Matlab and Octave	●●●●●

Certificates

- European Computer Driving License (ECDL)
- Advanced European Computer Driving License (AM3, AM4, AM5, AM6)
- Eucip IT Administrator

Publications

- 2016 On the Reliability of Optimization Results for Trigeration Systems in Buildings, in the Presence of Price Uncertainties and Erroneous Load Estimation
- 2015 Heuristic-based shiftable loads optimal management in smart micro-grids
Implementation of an online information system for the "Flora Critica d'Italia"
Optimization of trigeneration systems by Mathematical Programming: Influence of plant scheme and boundary conditions
Retargeting framework based on monte-carlo sampling
- 2014 Combining Top-down and Bottom-up Visual Saliency for Firearms Localization
Managing electrical energy storage systems and shiftable loads with an innovative approach in energy districts
Monte-Carlo Image Retargeting
Optimization of trigeneration systems by Mathematical Programming: influence of plant scheme and boundary conditions
Physical Metaphor for Streaming Media Retargeting
- 2013 A comprehensive tool for efficient design and operation of polygeneration-based energy lgrids serving a cluster of buildings. Part I: Description of the method
A Self-Adapting approach for forecast-Less scheduling of electrical energy storage systems in a liberalized energy market
Automatic aesthetic photo composition
Pareto-optimal Glowworm Swarms Optimization for Smart Grids Management
Three-dimensional Fuzzy Kernel Regression framework for registration of medical volume data
- 2012 A load model for EV parking lots
Multi-modal search for multiobjective optimization: an application to optimal smart grids management
Optimization of Polygeneration Systems serving a cluster of buildings
Physical simulation for real-time image/video retargeting
- 2011 Automatic Generation of Subject-Based Image Transitions
Springs-based Simulation for Image Retargeting
- 2010 Browser independent content based image resizing for liquid web layouts
Medical Image Registration: interpolations, similarities and optimizations strategies
Real-time content-aware image resizing using reduced linear model
- 2009 A Combined Fuzzy and Probabilistic Data Descriptor for Distributed CBIR
Effective and Efficient Interpolation for Mutual Information based Multimodality Elastic Image Registration
Fuzzy-based kernel regression approaches for free form deformation and elastic registration of medical images
Fuzzy Smoothed Composition of Local Mapping Transformations for Non-rigid Image Registration
Multi-modal Image Registration Using Fuzzy Kernel Regression
- 2008 A Java-based Wrapper for Wireless Communications
Noise Filtering Using Edge-Driven Adaptive Anisotropic Diffusion
- 2007 A BDI Agent System for Credit Risk Assessment based on Fuzzy Logic

Further interests

- Woodworking and metalworking
- Sports (any)
- Analog and digital sound synthesis
- Argentine Tango