

Escuela Superior Politécnica del Litoral

RESUME

PERSONAL INFORMATION

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RESUME SUMMARY

Diego Carrera Gallego, professional in the area of computer science MSc and Telematics PhD(c) with experience in undergraduate and postgraduate teaching in related areas, management of social projects and research. Fellow SENESCYT-Ecuador and UPM-Madrid. Director of research and outreach projects nominated for the 2019 UNESCO ICT Awards, winner of the 2020 VUB Chair Social Entrepreneurship Awards, and 2020 IDB Play Challenge Awards. Best Liaison Director Award 2020 and 2022. Areas of interest: UX Experience, Cloud Services, Mobile Apps, Social Media, Gaming, Multimedia, Education, and LINUX.

EDUCATION

TITLE	LEVEL	INSTITUTION	AREA	COUNTRY
Master's Degree in Information Technology	Fourth level	Polytechnic University of Madrid	Information and Communication Technologies (ICT)	Spain
Computer Engineer (Information Systems Specialization)	Third level	Polytechnic School of the Coast	Information and Communication Technologies	Ecuador

ACADEMIC EXPERIENCE

INSTITUTION	EXPERIENCE	START DATE	END DATE	DEDICATION
Escuela Superior Politécnica del Litoral, Guayaquil-Ecuador	Occasional Lecturer (undergraduate)	01/01/2014	Up to the present day	Full-time
Center for Continuing Education – ESPOL	Teacher of Mobile Applications and Advanced Programming Tools	12/01/2023	18/01/2024	20 hours for each course.
Training at the Agrarian University of Ecuador.				
University of San Gregorio Portoviejo-Ecuador	Occasional Lecturer (postgraduate)	1/10/2018	1/01/2020	Part-time
UVS-ESPOL, FADCOM-ESPOL	Instructor. The Role of Teachers in a Virtual	12/05/2020	21/05/2020	20 hours The course has been taught 4 times.

	Classroom and the Use of Zoom tools, Microsoft Teams			
UVS-ESPOL	Ruby & Linux Instructor	1/11/2020	20/11/2020	20 hours (every 6 months for 4 years)
UVS-ESPOL	Instructor Use Explorak5	1/11/2021	20/11/2021	20 hours (every 6 months for 4 years)
FADCOM-ESPOL	Instructor Excel	1/04/2018	15/05/2018	20 hours
Polytechnic University of Madrid. Spain	Researcher-in-training	1/01/2011	12/31/2014	Full-time
Microsoft-ESPOL Academies	Instructor PHP	1/04/2008	15/05/2008	20 hours
CISE-ESPOL	Instructor PHP	1/11/2007	30/11/2007	20 hours (every 6 months for 2 years)

RELATED PROFESSIONAL EXPERIENCE

INSTITUTION	CHARGE	AREA	START DATE	END DATE
Integrated Action Program to Mitigate the Spread of Bacterial Moko and Safeguard Banana Production in Ecuador-Phase I	Researcher	Productivity, bananas, ICTs	04/04/2023	Up to the present day
FUSARIUM Initiative, a multipurpose platform for the prevention and management of tropical Fusarium race 4 in Ecuador - PHASE I: Effectiveness of disinfectant products and analysis of microbiomes associated with bananas	Researcher	Productivity, bananas, ICTs	02/01/2020	30/06/2020
Sustainable drying technology to optimize energy consumption in the cocoa drying process	Researcher	Productivity, cocoa, ICT	2/05/2018	31/05/2019
Polytechnic University of Madrid. Spain	Researcher	Productivity, telecommunications, ICT	1/01/2011	12/31/2014
Escuela Superior Politécnicas del Litoral, Guayaquil-Ecuador	Technical Assistant	Education, ICT	01/01/2007	31/12/2009
Aprofe - Asociación Pro Bienestar de la Familia Ecuatoriana	Development	Productivity, health, ICTs	2006	2007

ACADEMIC EVENTS / PROFESSIONAL DEVELOPMENT

EVENT	GUY	PARTICIPATION	START DATE	END DATE	DURATION	CERTIFIED BY:
Social Entrepreneurship Summit 2022	Conference	Participating Guest	6/08/2022	10/10/2022	40 hours	VUB Chair. Social Entrepreneurship/ ELANET European Union/ VLIRuos
IX ESPOL Linkage Fair 2022	Paper.	Participant-Ponente (21/07/2022)	18/07/2022	21/10/2022	15 hours	ESPOL
V ESPOCH Research-Linkage Fair 2022	Paper	Participant-Ponente	29/04/2022	29/04/2022	4 hours	SPUCH
2022 10th International Conference on Information and Education Technology	Conference	Participant-Ponente	9/04/2021	11/04/2021	20 hours	Okayama University (Japan)
VIII ESPOL Linkage Fair 2021	(2) Presentations	Participant-Ponente	19/11/2020	20/11/2020	16 hours	ESPOL
VI Linkage Fair – ESPOL 2019.	Paper	Participant-Ponente	8/11/2019	8/11/2019	8 hours	ESPOL
Social networks and their application to Redocom 2.0	Talk	Rapporteur	6/12/2011	6/12/2011	4 hours	Universidad Complutense Madrid (UCM)

PROJECT EXPERIENCE

PROJECT NAME	INSTITUTION	SINCE	UNTIL	COUNTRY
Sustainability model with the use of schooling platforms	ESPOL, Mission Alliance, Shaya-Schlumberger	1/05/2023	1/03/2024	Ecuador
PHASE 3 EXPLORE 5.0 and the Learning Path, Virtual Schooling Platform for Children Aged 4-7	ESPOL, Mission Alliance, Shaya-Schlumberger, REA, Diakonia	1/05/2022	1/03/2023	Ecuador
PHASE 2 EXPLORE 5.0. Virtual schooling platform for children aged 4-7	ESPOL, Mission Alliance, Shaya-Schlumberger, REA, Diakonia	1/05/2021	1/03/2022	Ecuador
EXPLORE 5.0. Virtual schooling platform for children aged 4-7	ESPOL, Mission Alliance,	1/05/2020	1/03/2021	Ecuador

	Shaya-Schlumberger, REA, Diakonia			
FUSARIUM Initiative, a multipurpose platform for the prevention and management of tropical Fusarium race 4 in Ecuador - PHASE I: Effectiveness of disinfectant products and analysis of microbiomes associated with bananas	ESPOL, CISE, PUCE, ESPE	02/01/2020	30/06/2020	Ecuador
#LaPizarraAudiovisual, Educational Digital Interactions for Kids	ESPOL	1/05/2020	1/03/2021	Ecuador
MIDI-AM 2.0: Evaluation and Production of educational games linked to control platforms for usability and preference analysis of content and graphic lines that impact the creation and use of MIDI-AM series as support for regular or inclusive education.	ESPOL, CIDIS, FCV, FIEC, FEDEA, UEFE, SFN, FVR	31/05/2019	31/01/2022	Ecuador
Mobile applications for the development of competencies in cognitive and language areas about the natural and social environment in children from 3 to 5 years old in the Educational Units: "Sagrada Familia de Nazareth" located in Nueva Prosperina and "Fermín Vera Rojas" located in Flor de Bastion, Guayaquil-Ecuador	ESPOL	2/05/2018	1/04/2019	Ecuador
Promotion for the productive and sustainable development of the commune of Paipayales located in the canton of Santa Lucía in the Province of Guayas. Project on links with the community – ESPOL. Saint Lucia-Ecuador	ESPOL	2/05/2018	1/04/2019	Ecuador
Technical training for high school students in the marginal urban areas of the Nueva Prosperina and El Fortín sectors, through a workshop for assembling, maintaining and repairing computers, and the development of a business plan to offer support services to users of personal computers	ESPOL	2/05/2018	1/04/2019	Ecuador
Sustainable drying technology that optimizes energy consumption in the cocoa drying process.	ESPOL, FCNM, FCSH, FICMCP	2/05/2018	31/05/2019	Ecuador

	UNRELEASED 2018			
USABILITY LUDIC MIDI GAMES ADAPTED IN MOBILE APPS FOR MILLENNIALS (MIDI-AM) -EXPLORATORY STUDY FOCUSED ON PRE- PRIMARY CHILDREN AND FIRST YEAR OF BASIC	FADCOM, FIEC	2/05/2018	31/05/2019	Ecuador
Comet. Cloud service for processing 3-dimensional animations for CEDIA. (RaaS, Render as a Service).	ESPOL	1/10/2017	1/04/2019	Ecuador
Analyze, evaluate and optimize computational resources within ESPOL, to manage time in tasks that require high computational consumption. Case Study: Rendering.	ESPOL	1/2/2015	31/1/2016	Ecuador
GLOBAL PLAZA	UPM, European Union	1/1/2010	20/05/2011	Spain
MORFEO	UPM, European Union	1/1/2010	20/05/2011	Spain
VIDEO CONFERENCING BOOKING AND MANAGEMENT (SAR) SYSTEM	UPM, European Union	1/1/2010	20/5/2011	Spain
SOCIALSTREAM	UPM, European Union	1/1/2010	20/5/2011	Spain
VAAS-TELEFONICA	UPM, European Union	1/1/2010	20/5/2011	Spain

HONORS AND AWARDS

DESCRIPTION	INSTITUTION	DATE	COUNTRY
Diploma of Distinction from the ESPOL Spokespersons program	Polytechnic School of the Coast	2024	Ecuador
Best Linkage Project Manager 2022	Polytechnic School of the Coast	June 2023	Ecuador
Best Linkage Project Manager 2020	Polytechnic School of the Coast	2020	Ecuador
First place entrepreneurship project. Explore.	Congreso VUB Chair Social Entrepreneurship	2020	Belgium-Ecuador.
Proyecto Loly MIDI-AM. Social Robot Games to Support Inclusive Education, Autistic Children	IDB, Play Challenge	2020	USED
Nominated for UNESCO's King Hamad Bin Isa Al-	UNESCO-Ecuador	2019	Ecuador

Khalifa Prize. By the MIDI-ESPOL project			
Best Bonding Project Manager	Polytechnic School of the Coast	2018	Ecuador
Research Fellow in Training	Polytechnic University of Madrid	2011-2014	Spain
Master's Scholarship Holder	SENESCYT-Ecuador	2008-2011	Ecuador
Scholarship for Academic Excellence	Colegio San José La Salle	2004-2008	Ecuador

PUBLICATIONS / PRESENTATIONS / EXHIBITIONS & CREATIVE WORK

PUBLICATION	GUY	YEAR	TYPE PARTICIPATION
Educational Digital Games Evaluation as a Teaching Support Tool in Academic Virtuality	Article - Scientific	2022	Author
Natural Language to Facilitate the Analysis of Statistical Evaluation of Educational Digital Games	Article - Scientific	Nov, 2021	Author
MIDI-AM Model to Identify a Methodology for the Creation of Innovative Educational Digital Games: A Proposed Serious Game Methodology Based on University Research Experiences	Book Chapter	Jan, 2021	Author
Refined metric interpretation in natural language for educational videogames using fuzzy logic	Article - Scientific	2021	Author
Evaluations of software developed as research tools to analyse trends of educational videogames characters	Article - Scientific	2020	Author
Adoption of children's educational video games, monitored with cloud-based control tables	Article - Scientific	2020	Author
Developing a Dashboard for Monitoring Usability of Educational Games Apps for Children	Article - Scientific	2019	Author
Community service projects, an experience to be shared. Projects 2018-2019	Book Chapter	2019	Author
Graphic Design and Its Influence on the Development of Web Interface Design	Article - Scientific	2017	Author
Social Stream, a social network framework	Article - Scientific	2012	Author
A survey on social network site's functional features	Article - Scientific	2012	Author
Tie-PRBAC: An application of PRBAC to social networks	Article - Scientific	2011	Author

Effects of the application of cognitive problem-solving strategies on one-dimensional particle kinematics	Article - Scientific	2009	Author
Online Academic Census System (CENACAD) for the automation of teacher evaluation	Article - Scientific	2007	Author
Classification system of the questionnaires filled out in the survey process, which are carried out for the evaluation of the teacher through the use of neural networks	Article - Scientific	2007	Author
Impact of teacher evaluation using the CENACAD information system	Article - Scientific	2006	Author