

Curriculum Vitae



Personal information

First name(s) / Surname(s) **Lorena de los Angeles Guachi Guachi**

Address Calles Monseñor Jorge Eduardo Villacis y Luis Felipe Borja - Cantón Ibarra - Provincia Imbabura (Ecuador)

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Skype loreangeles

Nationality Ecuadorian

Date of birth 30 September 1985

Gender Female

Occupational field **Education, Researching, Communication and Technology**

In computer vision, my research interests include design and implementation of image analysis algorithms for moving object detection in surveillance systems; and abdominal organs segmentation in medical image analysis.

Work experience

Dates	June 2017 –
Occupation or position held	Professor - Researcher
Main activities and responsibilities	Teaching and researching
Name and address of employer	University of Experimental Technological Research (Yachay Tech) Cantón San Miguel de Urucuquí, Imbabura, Ecuador
Type of business or sector	Researching, technology, education
Dates	June 2016 – November 2016
Occupation or position held	Visitor Researcher
Main activities and responsibilities	- Researching of deep learning for background subtraction - Design and implementation of deep auto-encoder for background subtraction
Name and address of employer	University of Amsterdam Science Park 904, 1098 XH, Amsterdam, The Netherlands
Type of business or sector	Researching
Dates	1 February 2013 – 23 May 2013
Occupation or position held	Systems Application Manager
Main activities and responsibilities	- Requirements Analysis - Support to users - Validations and testing of applications - Supervision of software applications
Name and address of employer	PRODUBANCO Amazonas Avenue and Japon, Quito (Ecuador)
Type of business or sector	Bank

Dates 12 November 2012 – 31 January 2013
Occupation or position held Systems Analyst
Main activities and responsibilities - Requirements Analysis for development informatics systems
- Programming of computer systems
Name and address of employer **Globalware**
Amazonas Avenue and Japon, Quito (Ecuador)
Type of business or sector Technology

Dates 09 March 2009 - 09 November 2012
Occupation or position held Software Developer
Main activities and responsibilities - Analysis requirements
- Projects planning
- Systems Programming
- Software Implementation/installation
Name and address of employer **Smartwork SA**
Patria and 10 de Agosto Avenues, Quito (Ecuador)
Type of business or sector Technology

Dates 18 December 2008 - 06 March 2009
Occupation or position held Software Developer Junior
Main activities and responsibilities Programming academic module.
Name and address of employer **IBECorporation**
Av. 6 de Diciembre between Whimper and Alpallana, Quito (Ecuador)
Type of business or sector Technology

Education

Dates July 2013 – February 2017
Title of qualification awarded PhD in Science and Technology of Complex Systems
Principal subjects / occupational skills covered Develop algorithms for image and video processing, design of embedded video systems.
Name and type of organization providing education and training Doctorate School "Archimede" in Science, Communication and Technology of University of Calabria - Arcavacata Campus - via P. Bucci - 87036 Arcavacata di Rende (CS) (Italy)

Dates December 2010 - May 2012
Title of qualification awarded Master in Total Quality (Online)
Principal subjects / occupational skills covered - Know and understand about process management Quality, Organization Management.
- Be able to choose a quality control strategies.
Name and type of organization providing education and training Instituto de Estudios Aplicados (Professional Studies Institute - Online)
Méndez Núñez, Málaga (Spain)

Dates 23 September 2003 - 30 July 2008
Title of qualification awarded Systems Engineering

Principal subjects / occupational skills covered Mathematics, geometry, programming, physics, simulation techniques, network security, Operative Systems, economy, accounting.

A Systems Engineering

- It can identify, analyze and solve problems related to computer science.

- It is able to analyze, design and implement informatics systems.

- It is prepared to give technical support.

Name and type of organization providing education and training

ESPOCH - Escuela Superior Politécnica de Chimborazo (Polytechnic School of Chimborazo)
Panamericana Sur km 1 1/2, EC060155 Riobamba (Ecuador)

Training / Courses / Congresses / Certifications

Dates 7 April 2017

Title of event Ciclo de Conferencias ESPOCH UNICAL 2017 in Riobamba, Ecuador

Talk speaker: "Background subtraction algorithms"

Name and type of organization providing education and training

Facultad de Informática y Electrónica, Escuela Superior Politécnica de Chimborazo (ESPOCH)

Dates 8-16 October 2016

Title of event The 14th European Conference on Computer Vision (ECCV 2016) in Amsterdam, The Netherlands

Name and type of organization providing education and training

University of Amsterdam

Dates 24-28 July 2016

Title of event The Ninth International Conference on Advances in. Circuits, Electronics and Micro-electronics. CENICS 2016 in Nice, France

Paper speaker: "Color Invariant Study for Background Subtraction"

Name and type of organization providing education and training

Organized by International Academy, research, and Industry Association (IARIA)

Dates 13-17 June 2016

Title of event VISMAC International Summer School On Pattern Recognition And Smart Vision For Land Security 2016 in Pordenone and Grado, Italy

Name and type of organization providing education and training

Organized by the Gruppo Italiano Ricercatori in Pattern Recognition (GIRPR) in collaboration with Consorzio Universitario di Pordenone and professors and researcher from the Department of Mathematics, Computer Science and Physics of the University of Udine

Dates 14-16 October 2015

Title of event 2015 AEIT International Annual Conference in Naples, Italy

Paper speaker: "Embedded Surveillance System Using Background Subtraction and Raspberry Pi"

Name and type of organization providing education and training

AEIT Italian Association of Electrical Engineering, Electronic, Automatization, Computing and Telecommunication

Dates 18-20 October 2014

Title of event III Meeting of Ecuadorian students in Europe in Berlin, Germany

Name and type of organization providing education and training

SENESCYT

Dates 13-18 October 2014

Title of event 48th IEEE International Carnahan Conference on Security Technology in Rome, Italy

Paper speaker: "A novel background subtraction method based on color invariants and grayscale levels"

Name and type of organization providing education and training	Safety & Security Engineering Group of the SAPIENZA – University of Rome
Dates	2-18 July 2014
Title of event	Summer school on “Formative course in Innovation, Investigation and Technological sharing” in Rende, Italy
Name and type of organization providing education and training	Organized by the Liaison Office- University of Calabria
Dates	29 September 2011
Title of qualification awarded	Certification in .NET Framework 4, Data Access
Principal subjects / occupational skills covered	Knowledge in Data Access using entity framework and datasets.
Name and type of organization providing education and training	Microsoft
Dates	13 September 2011
Title of qualification awarded	Certification in Windows Application
Principal subjects / occupational skills covered	- Knowledge in windows forms and wpf - Deployment in Windows Application
Name and type of organization providing education and training	Microsoft
Dates	15 June 2011
Title of qualification awarded	Certification in Silverlight 4 Development
Principal subjects / occupational skills covered	Be able to develop systems using Silverlight
Name and type of organization providing education and training	Microsoft
Dates	June 2011 (seven months online)
Title of qualification awarded	E-learning Expert
Principal subjects / occupational skills covered	- Technology applied to education - Virtual education resources - Virtual learning environments - Digital presence and corporate image - Academic reach, training and interaction - Simulation and technology with virtual support
Name and type of organization providing education and training	Fatla http://www.fatla.org/
Dates	April 2008 - September 2008
Principal subjects / occupational skills covered	Programming in Java
Name and type of organization providing education and training	ESPOCH - Escuela Superior Politécnica de Chimborazo (Polytechnic School of Chimborazo) Panamericana Sur km 1 1/2, EC060155 Riobamba (Ecuador)
Dates	October 2007 - March 2008
Principal subjects / occupational skills covered	CCNA 3 Basic Skills in Switching and Intermediate Routing.
Name and type of organization providing education and training	ESPOCH - Escuela Superior Politécnica de Chimborazo (Polytechnic School of Chimborazo) Panamericana Sur km 1 1/2, EC060155 Riobamba (Ecuador)

Dates April 2007 - October 2007
 Principal subjects / occupational skills covered CCNA2
 Basic Knowledge of Routers and Routing.
 Name and type of organization providing education and training ESPOCH - Escuela Superior Politécnica de Chimborazo (Polytechnic School of Chimborazo)
 Panamericana Sur km 1 1/2, EC060155 Riobamba (Ecuador)

Dates October 2006 - March 2007
 Principal subjects / occupational skills covered CCNA1
 Basic Knowledge Network
 Name and type of organization providing education and training ESPOCH - Escuela Superior Politécnica de Chimborazo (Polytechnic School of Chimborazo)
 Panamericana Sur km 1 1/2, EC060155 Riobamba (Ecuador)

Personal skills and competences

Mother tongue(s) **Spanish**

Other language(s)

Self-assessment
 European level (*)

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Proficient user	B2	Proficient user	B1	Independent user	B1	Independent user	B2	Proficient user

(*) [Common European Framework of Reference \(CEF\) level](#)

Social skills and competences I am good at working in teamwork and communication. I have received two awards for participation in programming championships, one of them tree partners and me represented to the University in interuniversity championship about web programming.

Organizational skills and competences I enjoy leading in team and training to other people in my work. Often, on weekends I train other people in topics about programming.

Technical skills and competences I am good at programming in C#, asp.net, c++, and giving technical support to the users.

Computer skills and competences
 - Knowledge in SQL Server 2000,2005,2008.
 - Knowledge in Caffe framework for Deep Learning.
 - Good command C# in Visual Studio .Net 2005, 2008 and 2010.
 - Basic knowledge of Matlab, Python.

Publications

Dates October 2016
 Publication Guachi, L., Cocorullo, G., Corsonello, P., Frustaci, F., and Perri, S. (2017). citacion Comparative Evaluation of Background Subtraction Algorithms for High Performance Embedded Systems. International Journal on Advances in Systems and Measurements, vol 10 no 1 & 2, year 2017.

Dates October 2016
 Publication Corsonello, P., Cocorullo, G., Frustaci, F., Guachi, L., and Perri, S. (2016). Multimodal Background Subtraction for high performance embedded systems. Journal of Real-Time Image Processing, 2016, p. 1-17.

Dates July 2016
 Publication Guachi, L., Cocorullo, G., Corsonello, P., Frustaci, F., and Perri, S. (2016). Color Invariant Study for Background Subtraction. In CENICS 2016 : The Ninth International Conference on Advances in Circuits, Electronics and Micro-electronics.

Dates October 2015
Publication Cocorullo, G., Corsonello, P., Frustaci, F., Guachi, L., and Perri, S. (2015). Embedded surveillance system using background subtraction and raspberry pi. In 2015 AEIT International Annual Conference (AEIT), pages 1–5. IEEE.

Dates October 2014
Publication Guachi, L., Cocorullo, G., Corsonello, P., Frustaci, F., and Perri, S. (2014). A novel background subtraction method based on color invariants and grayscale levels. In 2014 International Carnahan Conference on Security Technology (ICCST), pages 1–5. IEEE.

Awards

Date July 2016

Award "Best Paper" based on the reviews of the original submission, the camera-ready version, and the presentation during the conference.
Paper: "Color Invariant Study for Background Subtraction"

Name and type of organization providing education and training International Academy, research, and Industry Association (IARIA)

Date November 2007

Award Third place in the Inter-university Competition of Software Development

Name and type of organization providing education and training ESPE – Universidad de las Fuerzas Armadas (Army Polytechnic School)
Av. General Rumiñahui S/N y Paseo Escénico Santa Clara. Sangolquí - Ecuador

Date April 2007

Award First Award Winner at "SOFTWARE DEVELOPMENT EIS-2007"

Name and type of organization providing education and training ESPOCH - Escuela Superior Politécnica de Chimborazo (Polytechnic School of Chimborazo)
Panamericana Sur km 1 1/2, EC060155 Riobamba (Ecuador)

References

Name Ing. Damian Andrade

Occupation or position held Developer senior in NOVA - Quito, Ecuador

Contact Mobil: +593996539084 email: vda_damian@hotmail.com

Nombre Ing. Danilo Pastor

Ocupación o posición Docente Escuela Superior Politécnica de Chimborazo – Riobamba, Ecuador

Contacto email: danilo.pastor@esPOCH.edu.ec

Name Prof. Stefania Perri Ph.D.

Occupation or position held Associate Professor in University of Calabria – Rende, Italy

Contact Phone: +39984/494765 email: stefania.perri@unical.it