

Raúl Díaz García

LinkedIn : <https://www.linkedin.com/in/raul-diaz-garcia/>
Homepage : <https://rauldiaz.github.io/>

diaz.raul@gmail.com
rdiazgar@uci.edu

EDUCATION	University of California, Irvine <i>Ph.D., Computer Science</i> Thesis: Strong Geometric Context for Scene Understanding	September 2011 - October 2016
	Universitat Autònoma de Barcelona, Spain <i>M.S., Computer Vision and Artificial Intelligence</i> <i>B.S., Computer Science Engineering</i>	September 2008 - September 2009 September 2001 - June 2007
	Nottingham Trent University, UK <i>B.S.'s Final Year Project</i>	February 2006 - June 2006
EXPERIENCE	Amazon Web Services <i>Senior IoT Data Scientist & Computer Vision - Professional Services</i>	Since March 2020
	HP Inc, San Diego, CA <i>Computer Vision and Machine Learning Research Lead</i> <ul style="list-style-type: none">• Software development for 3D scanning, metrology, and quality assessment.• Research of novel computer vision and machine learning products.• Helped creating ML/AI engineer and manager recruiting profiles for HR.	October 2016 - February 2020
	CEPL, Barcelona, Spain <i>Project analyst</i> <ul style="list-style-type: none">• Supervised migration from Sony's logistic system to CEPL's.• Maintained Sony's former legacy applications.	May 2010 - July 2011
	Sony, Barcelona, Spain <i>Several Roles</i> <ul style="list-style-type: none">• <i>Chief Technology Architect</i> Lead the design of database schemes and supervised a small team dedicated to implement software interfaces for Intranet development.• <i>Business Consultant</i> Evaluated and designed new business software tools across the sales division.• <i>Software Developer</i> Designed and developed a new warehouse management software for the logistic division, on top of a legacy host environment.	August 2006 - April 2010
	Isislan IT Services, Sabadell, Spain <i>IT Engineer</i> <ul style="list-style-type: none">• Network and Database administration of several customer companies.	September 2004 - January 2006
TEACHING	Universitat Autònoma de Barcelona <i>Teacher Assistant</i> <ul style="list-style-type: none">• Introduction to Artificial Intelligence: lead discussion lectures on introductory concepts of AI like search, heuristics, and supervised/unsupervised learning.• Artificial Vision: taught about initial aspects of vision such as acquisition, filtering, morphological transforms, description, segmentation, and clustering.• Introduction to algorithms and programming: lead discussion lectures about basic data structures, algorithm concepts, and software life cycles (design, coding, test).• Databases: taught discussion sessions on relational database architecture, entity-relationship models, design, and normalization.	Sept 2009 - July 2011

**REFEREED
CONFERENCE
AND
WORKSHOP
PUBLICATIONS**

R. Díaz, A. Marathe. Soft Labels for Ordinal Regression. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. Long Beach, California, June 2019.

R. Díaz, C. Fowlkes. Cluster-wise Ratio Tests for Fast Camera Localization. In *Workshop on Visual Odometry & Computer Vision Applications Based on Location Clues, IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. Honolulu, Hawaii, July 2017.

R. Díaz, M. Lee, J. Schubert, C. Fowlkes. Lifting GIS Maps into Strong Geometric Context for Scene Understanding. In *Proceedings of the IEEE Winter Conference on Applications of Computer Vision (WACV)*. Lake Placid, New York, 2016.

R. Díaz*, S. Hallman*, C. Fowlkes. Detecting Dynamic Objects with Multi-View Background Subtraction. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*. Sydney, Australia, December 2013.

R. Díaz*, S. Hallman*, C. Fowlkes. Multi-View Background Subtraction for Object Detection. In *Scene Understanding Workshop, IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. Portland, Oregon, June 2013.

* equal contribution

**TECHNICAL
SKILLS**

Operating Systems: Windows, Linux
Languages: Python, C/C++, Matlab, Java
Data Processing: OpenCV, Numpy, Scikit-learn, Scipy
Deep Learning: Tensorflow, Keras, Pytorch
Database: MySQL, PostgreSQL, Oracle
Front-End: HTML, JSP, JavaScript, JSTL
Coding & Versioning: L^AT_EX, Git, Subversion, Anaconda, Conan
Familiar: OpenVMS, Pascal, Ruby

**LANGUAGE
SKILLS**

Spanish and **Catalan** as native speaker.
English:

- TOEFL, 2011.
- Certificate in Advanced English (CAE), University of Cambridge, 2006.

**AWARDS AND
GRANTS**

Balsells Fellowship, September 2011 - August 2013.
Erasmus Fellowship, February 2006 - June 2006.

**ADDITIONAL
ACTIVITIES**

Cooperated in the Catalan House of California, Sept 2011 - Aug 2013.
<http://www.casalcatalalosangeles.org/>

Voluntary member of a presidential candidacy at Club Natació Sabadell, Spain, 2011.
<http://www.nataciosabadell.com/>

Federated Futsal player, Spanish Futsal League:

- Futbol Sala Castellar, 2007 - 2011, team captain.
- Futbol Sala Bigues i Riells, 2006 - 2007, team captain.
- Club Natació Sabadell, 2001 - 2006.

Futsal coach:

- Ferran Casablanques High School, Sabadell, Spain, 2002 - 2007