

Raúl Díaz García

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EDUCATION

University of California, Irvine

Ph.D., Computer Science

September 2011 - October 2016

Thesis: Strong Geometric Context for Scene Understanding

Universitat Autònoma de Barcelona, Spain

M.S., Computer Vision and Artificial Intelligence

September 2008 - September 2009

B.S., Computer Science Engineering

September 2001 - June 2007

Nottingham Trent University, UK

B.S.'s Final Year Project

February 2006 - June 2006

EXPERIENCE

Amazon Web Services - Professional Services, Spain Since March 2020

Sr Delivery Consultant - Generative AI, Machine Learning, Computer Vision, and IoT

- Leading pre-sales customer conversations and project proposals.
- Acting as a subject matter expert and technical lead during project delivery.
- Expertise delivering results across industry verticals such as Financial Services, Manufacturing, Agriculture, Media and Entertainment, Logistics, and Sports.
- Authored public blogs and code repositories regarding AWS solutions.

HP Inc, San Diego, CA

October 2016 - February 2020

Computer Vision and Machine Learning Research Lead

- Software development for 3D scanning, photogrammetry, and quality assessment.
- Research of novel computer vision and machine learning products.
- Helped creating ML/AI engineer and manager recruiting profiles for HR.

CEPL, Barcelona, Spain

May 2010 - July 2011

Project analyst

- Supervised migration from Sony's logistic system to CEPL's.
- Maintained Sony's former legacy applications.

Sony, Barcelona, Spain

August 2006 - April 2010

Chief Technology Architect

- Lead the design of database schemes and supervised a small team dedicated to implement software interfaces for Intranet development.

Business Consultant

- Evaluated and designed new business software tools across the sales division.

Software Developer

- Designed and developed a new warehouse management software for the logistic division, on top of a legacy host environment.

Isislan IT Services, Sabadell, Spain

September 2004 - January 2006

IT Engineer

- Network and Database administration of several customer companies.

AWARDS AND GRANTS

Balsells Fellowship, September 2011 - August 2013.

Erasmus Fellowship, February 2006 - June 2006.

TEACHING

Universitat Autònoma de Barcelona

Sept 2009 - July 2011

Teacher Assistant

- 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.

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

PATENTS

Raúl Díaz García. Categorization to related categories.
U.S. Patent US11494429B2. November 8, 2022.

LANGUAGE SKILLS

Spanish and **Catalan** as native speaker.

English:

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

TECHNICAL SKILLS

Operating Systems: Windows, Linux

Languages: Python, C/C++, Matlab, Java

Data Processing: OpenCV, Numpy, Scikit-learn, Scipy, Pandas

Deep Learning: Tensorflow, Keras, Pytorch

Database: MySQL, PostgreSQL, Oracle

Coding & Versioning: L^AT_EX, Git, Subversion, Anaconda

Familiar: OpenVMS, Pascal, Ruby

CLOUD CERTS

AWS Certified Solution Architect - Associate

AWS Certified AI - Practitioner

AWS Certified Machine Learning Engineer - Associate

AWS Certified Machine Learning - Specialty