Raúl Díaz García

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Homepage : https://rauldiaz.github.io/

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, photogammetry, 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

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: LaTeX, 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

LANGUAGE SKILLS

Spanish and **Catalan** as native speaker.
English:
- TOEFL, 2011.
- Certificate in Advanced English (CAE), University of Cambridge, 2006.