

Raúl Díaz García

CONTACT INFORMATION

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EDUCATION

University of California, Irvine

- Ph.D., Computer Science, Sept 2011 – Oct 2016.
Thesis: Strong Geometric Context for Scene Understanding, Oct 2016.

Universitat Autònoma de Barcelona, Spain

- M.S., Computer Vision and Artificial Intelligence, Sept 2008 – Sept 2009.
- B.S., Computer Engineering, Sept 2001 – June 2007.

Nottingham Trent University, UK

- B.S.'s Final Year Project, Feb 2006 – Jun 2006.

CONFERENCE PUBLICATIONS & TECHNICAL REPORTS

R. Díaz, C. Fowlkes "Cluster-wise Ratio Tests for Fast Camera Localization", *Visual Odometry Workshop, 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", *Winter Conference on Applications in Computer Vision (WACV), Lake Placid, New York, 2016.*

R. Díaz*, S. Hallman*, C. Fowlkes, (*equal contribution), "Detecting Dynamic Objects with Multi-View Background Subtraction", *International Conference in Computer Vision (ICCV), Sydney, Australia, December 2013.*

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

WORK EXPERIENCE

HP Inc, San Diego, CA (Since 2016)

Computer Vision Engineer

- Development of computer vision tools for 3D scan metrics and quality assessment.
- Research in machine learning for the development of new product lines.

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 Spain, Barcelona, Spain (Aug 2006 - April 2010)

Chief Technology Architect

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

Consultant

- Evaluated the need for new business software tools across departments.

Software Engineer

- Designed the logistic division's new software layer on top of a host environment.

Isislan Servicios Informáticos, Sabadell, Spain (Sept 2004 – Jan 2006)

IT engineer

- Network and Database administration of several customer companies.

**TEACHING
EXPERIENCE**

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.

**AWARDS &
GRANTS**

Balsells Fellowship, Sept 2011 – Aug 2013.

Erasmus Fellowship, Feb 2006 – Jun 2006.

**LANGUAGE
SKILLS**

Spanish and **Catalan** as a native speaker.

English:

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

**TECHNICAL
SKILLS**

	<i>Proficient</i>	<i>Familiar</i>
Operating Systems:	Windows, Linux	OpenVMS
Programming:	Matlab, Java, C/C++, Python	Pascal, Ruby
Machine Learning:	Keras, Tensorflow, numpy	
Databases:	Oracle, MySQL, PostgreSQL	
Front-end:	HTML, JSP, JavaScript	JSTL
Other:	LaTeX, Git, Subversion	conan

**OTHER
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 Casablanças High School, Sabadell, Spain, Sept 2002 - June 2007