



# Marcelo Armengot

*Computer Vision senior dev*

Madrid, Spain

(Profile picture from Dreambooth Stable Diffusion)

[github.com/armengot](https://github.com/armengot)

[orcid.org/0000-0001-8101-9413](https://orcid.org/0000-0001-8101-9413)

## Education

---

- **PhD in Astrophysics**  
*Universidad Complutense de Madrid* — 2013 – 2016 Ultraviolet image processing for interstellar medium studies.
- **MSc in Computer Science and Computational Mathematics**  
*Universitat de València* — 2004 – 2006 Facial recognition using PCA/LDA and Common Vector methods.
- **Bachelor's in Computer Science (5-year)**  
*Universitat de València* — 1995 – 2000 Final project: Perl client/server app for GNU/Linux and Win32.

## Publications

---

- **Signatures of diffuse interstellar gas in the Galaxy Evolution Explorer all-sky survey**  
*Marcelo Armengot and Ana Inés Gómez de Castro Astronomy and Astrophysics*, 2019.
- **MOSAIX: a tool to build large mosaics from GALEX images**  
*Marcelo Armengot, Néstor Sánchez, Javier López-Santiago and Ana Inés Gómez de Castro Astrophysics and Space Science*, 2014.

## Conferences

---

- **Distribution of ISM features as per the GALEX all-sky survey** (*Marcelo Armengot and Ana Inés Gómez de Castro*) *Ultraviolet Sky Surveys "The needs and the means"*, 2017, Tel Aviv, Israel.
- **The properties of diffuse interstellar dust clouds as determined from GALEX and infrared (IRAS, Herschel) observations** (*Marcelo Armengot, Ana Inés Gómez de Castro, Javier López-Santiago and Néstor Sánchez*) *Highlights on Spanish Astrophysics IX*, XII Scientific Meeting of the Spanish Astronomical Society, 2016, Bilbao, Spain.
- **UV image processing to detect diffuse clouds** (*Marcelo Armengot, Ana Inés Gómez de Castro, Javier López-Santiago and Néstor Sánchez*) *XI Scientific Meeting of the Spanish Astronomical Society*, 2014, Teruel, Spain.
- **A GALEX based survey of the Taurus star forming region** (*Ana Inés Gómez De Castro, J. López Santiago, F. López-Martínez, N. Sánchez, P. Sestito, M. Armengot, E. de Castro, M. Cornide and J. Yañez-Gestoso*) *Protostars & Planets VI Workshop*, 2013, Heidelberg, Germany.
- **Adaptive kernel ridge regression for image denoising** (*Marcelo Armengot, Valero Laparra, Luis Gómez, Jesús Malo and Gustavo Camps-Valls*) *IEEE Workshop on Machine Learning for Signal Processing (MLSP)*, 2010, Kittilä, Finland.
- **Experiments about the Generalization Ability of Common Vector based methods for Face Recognition** (*Marcelo Armengot, Francesc Ferri and Wladimiro Diaz*) *7th International Workshop of Pattern Recognition in Information Systems (PRIS)*, in conjunction with ICEIS 2007, Funchal, Portugal.

## Professional Experience

---

- **Senior Software Engineer — Indra** (2023 – Present)  
Real-time C++ (CUDA) Computer Vision multithreading subsystem.
- **Computer Vision Tech Lead — Izertis** (2022 – 2023)  
Led and developed Computer Vision projects.
- **Software Developer — Agerpix Technologies** (2020 - 2022)  
Image Processing and Machine Learning.  
Python, OpenCV, C++, R, QGIS, PostgreSQL, Shell scripting.
- **Software Developer — Xeridia** (2019 — 2019)  
C/C++/Pro\*C Oracle on AIX for online banking.
- **Computer System Manager — Atlantida** (2017 – 2019)  
Remote support for multimedia servers onboard Renfe long-distance trains.
- **Computer System Manager — Universidad Complutense de Madrid** (2012 – 2017)  
Computer support for WSO-UV project (servers, Perl, shell scripting).  
Research on ultraviolet image processing with a focus on the WSO-UV project.
- **Research Staff — Universitat de València** (2009 – 2011)  
Kernel methods, regression, clustering, image denoising, neural networks.  
Image processing research at IPL ([ipl.uv.es](http://ipl.uv.es)).
- **Research Staff — Instituto Tecnológico de Informática (ITI)** (2007 – 2009)  
C/C++, biometric libraries, optimization, OpenCV, surveillance projects.
- **Research Scholar — Universitat de València** (2004 – 2007)  
Scheduling software (Delphi/C), C/GTK frontend for Graphviz dot graphs.  
E-learning platform, helpdesk, webmaster.

## Skills

---

- **Programming Languages:** C/C++, Python, Perl, Matlab, R, PHP.
- **Web & Markup:** HTML/CSS, LaTeX.
- **Operating Systems:** Unix, Linux; shell scripting, awk.
- **Databases:** Oracle, PostgreSQL, MySQL.
- **Version Control & IDEs:** Git, SVN, Eclipse.
- **Project Management Tools:** Jira, Confluence.

## Personal Interests

---

- Passionate about **cinema**, **creative writing** and **cooking**.
- Enjoy swimming, writing songs and playing the piano. My piano album on Jamendo: *Piano Demo*.
- Maintain a personal blog with thoughts, code and geeky stuff: [nerdinmadrid.tumblr.com](http://nerdinmadrid.tumblr.com).
- Regular gamer – into both retro and modern titles.