



# Martín Gramática

Information Systems Engineer.

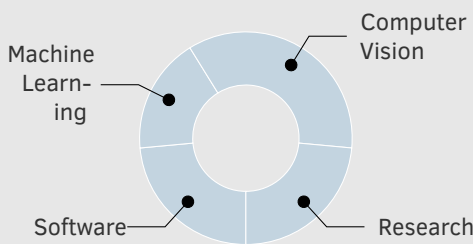
Computer Vision, Robotics and Machine Learning MSC

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## About Me

I am an Information Systems Engineer with more than 9 years of experience in software development and education. I finished a master's degree in the UK in Computer Vision, Robotics and Machine Learning (MSc) with distinction. I have worked with many technologies so far, and I am always happy to learn and work in novel and challenging projects. I am willing to work with Machine Learning and Computer Vision.

Me



## Languages

- Spanish ●●●●●
- English ●●●●●
- German ●●●●●
- French ●●●●●

## Working Experience

- 2020 – Now** **Computer Vision Engineer** Smart In Media AG  
 Responsible of maintaining and adding features to the LiveView software. This app is used to analyse and share microscope images in real time. Responsible of developing a microscope images stitching App using .NET and EmguCV (OpenCV wrapper for .NET). The software creates, in real time, a single image containing the full slide.  
**Languages:** C#;  
**Frameworks:** OpenCV (EmguCV);  
**Repository:** GIT;
- 2011 – Now** **Computer Vision and ML Engineer** National Technological University  
 I have a part-time job (10 hours per week) where I work as a research engineer in the field of Machine Learning and Computer Vision. I provide assistance to students working in the research department and I work in several research projects with contributions in both, the scientific stack (performing data collection, data exploring, model definition and model validation) and the engineering stack (data persistence, full-stack development, testing and deployment). I also have responsibilities related with project management.  
**Visual search:** Visual search over 3D objects using Autoencoders based on VGG-16 to choose the closest medical implant for a given new problem. Technologies: Tensorflow2, Python, Keras, Pandas, NumpySTL.  
**3D cGANs:** Generate the best fit medical implant based on a given anatomy. Technologies: Tensorflow2, Python, Keras, Pandas, NumpySTL.
- 2013 – 2020** **Full-Stack developer** Cooperativa Integral Villa Carlos Paz  
 Maintenance and development of new functionality to support the dynamics needs of the company. In this position I work on analysis and design, project management and software development. The main system of the company is developed in Visual Basic .NET, but several side projects are also in my scope. An Oracle 11g database is used and I also develop Stored Procedures for this environment.  
**Languages:** Visual Basic .NET; HTML and CSS; Javascript; Typescript; JQuery; VBScript.  
**Frameworks:** .NET; .NET Core; Angular2; Ionic2.  
**Database:** Oracle 11g.  
**Repository:** SVN.
- 2014 – 2020** **Software developer** Freelance Projects  
 On free times, I work as freelance developer, both, with customers or my own innovation projects. I have worked in many interesting projects so far. This methodology allows me to stay updated with the last trends and technologies.  
**Languages:** PHP; Python; C#;  
**Frameworks:** OpenCV; Django; Digits; TensorFlow/Keras; CakePHP  
**Database:** MySQL; PostgreSQL.  
**Repository:** GIT.
- 2017 – 2018** **Lecturer assistant** National Technological University  
 Teaching Mathematical Analysis II in the Engineer degree, covering practical exercises.
- 2013 – 2013** **Java Developer** Globant (Contractor for Southwest Airlines)  
 Development of automated test cases to provide a suit of regression testing to a critical software solution of the company.  
**Languages:** Java; Selenium.  
**Frameworks:** JBehave.  
**Database:** Oracle.  
**Repository:** GIT.
- 2012 – 2013** **Internship - Java developer** Motorola/LIDICALSO  
 Development of automated test cases and bugs correction.  
**Languages:** Java; Selenium.  
**Frameworks:** JBehave.  
**Database:** Oracle.  
**Repository:** GIT.

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Information Systems Engineer.

Computer Vision, Robotics and Machine Learning MSc

## Profile

I have experience working as part of a team and individually. I am proactive. I am able to handle multiple tasks on a daily basis. I use a creative approach to solve problems and to propose ideas. I am always highly enthused about my work and tasks ahead. I am good managing my time. I communicate well, and I like to give visibility over my daily work. I like to think outside the box, but I give a lot of importance to details.

## Soft skills



## Technologies

Python

.NET

OpenCV

Tensorflow

Pytorch

Matlab

Unity 3D

Oracle

## Education

- 2018 – 2019 **Master Degree (Distinction)** University of Surrey, UK  
Computer Vision, Robotics and Machine Learning MSc
- 2021 – Now **Micromaster online** MIT, US  
Statistics and Data Science (In Progress)
- 2007 – 2016 **Degree (8.71/10)** National Technological University, Argentina  
Information Systems Engineer (MEng equivalent degree)

## Research Projects

- 2011 – 2014 **Modeling for the prediction of forest fires in the Province of Córdoba** National Technological University Cordoba  
A model of forecast was developed to detect fires Forestry in the Province of Córdoba. A mathematical / computational model was developed that captures the presence of humans patterns and weather patterns, such as humidity, pressure, temperature and amount of rainfall in an area.  
**Frameworks:** OpenCV; .NET.  
**Languages:** Visual C++; C#. **Repository:** SVN.
- 2012 – Now **PEALS - Educational platform for sign language activities** National Technological University Cordoba  
PEALS is a comprehensive system that supports the education of deaf children. Its main module is a sign interpreter that, using a conventional webcam and Computer Vision allows interpreting the signs that the user performs with his hands.  
**Languages:** Python; C#; C++. **Frameworks:** OpenCV; EmguCV; .NET MVC; TensorFlow/Keras. **Database:** MySQL.
- 2016 – 2019 **Non structured text analysis** UTN-LIS (National Technological University)  
This project uses machine learning techniques to analyse texts and determine the existence of sentences that have the same meaning. It works on texts in Spanish and English. The project requires analysing, processing, and tabulating information, as well as developing algorithms that facilitate the loading and analysis of texts.  
**Languages:** C#; **Frameworks:** .NET;
- 2018 – 2019 **Digital Glasses - A computational display for digital eyesight correction** University of Surrey - UK  
This is a computational solution for digital eyesight correction, based on mapping the distortions perceived to correct the image according to the user's particular conditions. This is my MSc dissertation project.  
**Languages:** C#; **Frameworks:** Unity3D.

## Publications

- 2017 **PEALS Sign detection**  
*Martin Gramatica, Gabriel Freisz*  
CONAIS 2017  
<http://ria.utn.edu.ar/xmlui/handle/123456789/2677>  
Page 665.

## Awards

- 2007 500x500 Scholarship Cordoba Province Government
- 2011 Research Scholarship SAE-UTN
- 2017-2019 BINID Research Scholarship UTN
- 2018-2019 Master's degree study scholarship BEC.AR - Universities UK