

About

PhD in Machine Learning and Signal Processing

Contact

New York City

☘ Cellphone:
+1 650-931-7454

☘ Email:
dcastan@gmail.com

Programming Languages

♥ Python
Bash, Matlab,
C/C++

Machine Learning Tools

PyTorch
TensorFlow
Sklearn
NumPy, SciPy
Keras, Kaldi

Specialized Software

Cluster threading:
(Sun Grid Engine,
Condor)
MS Office
L^AT_EX

Languages

English, Italian
Spanish

Experience

- | | | |
|-----------|--|--------------------------|
| 2015-Now | SRI International
<i>Senior Computer Scientist</i>
◆ Applied research for government and commercial R&D efforts in speaker identification and verification, speaker diarization, language identification, calibration and acoustic event detection.
◆ Worked with multiple start-ups from SRI Ventures Capital focused in signal and speech processing for health applications.
◆ Honored with the outstanding employee award multiple times | Menlo Park, CA & NYC, NY |
| 2014-2015 | Aragon Research Institute (I3A)
<i>Post-doctoral researcher</i>
◆ Research topics: Performance of anti-spoofing systems and audio segmentation-by-classification approaches
◆ Development of a context-aware communicator based on natural language processing and pictograms. | Zaragoza, Spain |
| 2009-2014 | Zaragoza University
<i>PhD. Student</i>
◆ Associated to "SD-TEAM: Personalization and autonomous adaptation to the constraints of context in multi-domain spoken dialogue systems".
◆ Research topics: Automatic audio content, segmentation and acoustic event detection.
◆ Teacher Assistant: Laboratory of "Telecommunications Theory"
◆ International internships: Columbia University (NY-USA), Fondazione Bruno Kessler (Trento-Italy), and SRI International (CA-USA) | Zaragoza, Spain |
| 2008 | Instituto Tecnológico de Aragón (ITA)
<i>Engineer</i>
◆ Development of a DGPS in the electronic area. | Zaragoza, Spain |

Education

- | | | |
|-----------|---|---|
| 2009–2014 | Ph.D. in Speech/Audio Signal Processing, Machine Learning and Pattern Recognition
Thesis: "Advances on Audio Segmentation and Audio Content Description for Multimedia Documents" (Graduated Cum Laude) | Zaragoza University |
| 2008–2009 | M.Sc. in Information technology and Radio-Mobility
(Graduated Cum Laude) | Zaragoza University |
| 2001–2008 | M.Sc. & Bach Electrical Engineering | Zaragoza University |
| 1991–2008 | Music Degree in Classic Guitar | Professional Music Conservatory of Zaragoza |

Publications

COMPLETE LIST IN GOOGLE SCHOLAR

<https://scholar.google.com/citations?user=T5WbJUsAAAAJ&hl=en>

Awards, Grants & Honours

- | | | |
|-----------|---|---------------------------|
| 2014 | Cum Laude PhD. Thesis | Zaragoza University |
| 2009-2013 | FPI Spanish Government Scholarship | EU and Spanish Government |
| 2009 | Cum Laude M. Sc. Thesis | Zaragoza University |