Ignacio Masari

WORK EXPERIENCE

[31/10/2021 - Current] PhD Student

Università degli Studi di Genova City: Genova Country: Italy Main activities and responsibilities: PhD Student on remote sensing at DITEN

[31/01/2021 - 28/10/2021] University research support

Ghent University

City: Gent Country: Belgium Main activities and responsibilities: Image analyst in the Plant System Biology (psb.ugent.be) center.

[01/2020 - 07/2020] Image processing intern

Hôpital Européen Georges Pompidou

City: Paris Country: France Main activities and responsibilities: C# and MATLAB programming Biomedical images analysis Results analysis Main research topic: • Diastolic function indices obtained through MRI4D Flow images

[02/2017 - 06/2019] Junior researcher

Facultad de Ingeniería y Ciencias Exactas y Naturales, Universidad Favaloro

City: Buenos Aires **Country:** Argentina **Main activities and responsibilities:** C# and MATLAB programming Biomedical Image Analysis Data Analysis Main research topics:

- Tricuspid annulus dilatation analysis through 4DCT images.
- ISMAD
- \circ FFRct

[02/2022 - Current] University teaching assistant - Machine Learning and Pattern Recognition

DITEN, Università degli studi di Genova

City: Genova

Country: Italy

Main activities and responsibilities:

Preparing instructional material and tutorial for the configuration of the software environment to be used during the exercises (Anaconda).

Didactical support for several laboratories covering basic machine learning toppics applied to remotely sensed data

EDUCATION AND TRAINING

[03/09/2019 - 03/09/2020] Biomedical Engineering Master Degree (Biolmaging track)

Université de Paris, ENSAM and PSL in collaboration with Telecom ParisTech

Address: Paris, France Level in EQF: EQF level 7 Main subject / occupational skills covered: Last provisional transcript: • GPA: 15.44/20 • Rank: 3/22

[01/2014 - 06/2019] Biomedical Engineering Degree

Facultad de Ingenieria y Ciencias Exactas y Naturales, Universidad Favaloro

Address: Ciudad Autonoma de Buenos Aires, Argentina Level in EQF: EQF level 7

Main subject / occupational skills covered:

- ° GPA: 8.04/10
- Degree with honours

[08/2020 - 11/2020] Deep Learning Specialization

DeepLearning.Al <u>https://www.deeplearning.ai/program/deep-learning-</u> specialization/

LANGUAGE SKILLS

Mother tongue(s): Spanish

Other language(s):

English

LISTENING C2 READING C2 WRITING C2 SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

French

LISTENING B2 READING B2 WRITING B1 SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Italian

LISTENING C2 READING C1 WRITING C1 SPOKEN PRODUCTION C1 SPOKEN INTERACTION C2

My Digital Skills

Programming skills

CC++C# | Python | Javascrip | R | Matlab | OpenGL | OpenCV | SQL

Image Processing

ImageJ | Fiji | Icy | ENVI | GIS

Deep Learning

Scikit-learn | Tensorflow | Keras Framework | Pytorch

PUBLICATIONS

[2022]

Morphological and Dynamic Analysis of the Right Atrioventricular Junction in Healthy Subjects with 4D Computed Tomography https://doi.org/10.1007/s13239-021-00604-0

J. Jouan, D. Craiem, I. Masari, V. Bliah, G. Soulat, E. Mousseaux

Cardiovascular Engineering and Technology. Feb, 2022. https://doi.org/10.1007/s13239-021-00604-0

[2020]

Dynamics of the right atrio-ventricular junction in human: a spatial highresolution study with multiphase computed tomography https://doi.org/10.1093/ehjci/ehaa946.0169

J. Jouan, I. Masari, V. Bliah, G. Soulat, D. Craiem, E. Mousseaux

European Heart Journal, Volume 41(Supplement_2), p. 169. Nov, 2020.

[2020]

High-resolution analysis with multiphase computed tomography of the left atrio-ventricular junction in mitral annular disjunction https://doi.org/10.1093/ehici/ehaa946.0170

J. Jouan, I. Masari, V. Bliah, G. Soulat, D. Craiem, E. Mousseaux

European Heart Journal, Volume 41(Supplement_2), p. 170. Nov, 2020.

[2019]

Four-dimensional Computed Tomography Study of the Tricuspid Annulus Deformation During the Cardiac Cycle

I. Masari, J. Jouan, A. Pascaner, M. Casciaro, D. Craiem

Bioengineering Argentinian Society Journal, Vol 23 No 2. Nov, 2019.

CONFERENCES AND SEMINARS

Seminars

GMEPE/PAHCE 2019

Participated in the organizing committee at the GMEPE/PAHCE 2019 Conference.

Ciudad Autónoma de Buenos Aires, Argentina. March 26-31, 2019.

IMETTYB (CONICET) internal seminars

"Evaluation of cardiovascular hemodynamics using MRI: left ventricular diastolic function and association between non-invasive aortic wall shear stress and medial wall histopathology", 28/08/2018.

"Rigidez de la aorta mediante Resonancia Magnética 4D", 26/06/2018.

"Exosomas derivados de células madre mesenquimales de cordón umbilical humano activadas a un fenotipo anti-inflamatorio/inmunosupresor para regeneración cardiaca en un modelo ovino de infarto agudo de miocardio", 05/06/2018.

ARGENCON 2016

Voluntary collaborator at the IEEE ARGENCON 2016, IEEE Argentina's biennial congress.

Ciudad Autónoma de Buenos Aires, Argentina. June 15-17 2016.

HONOURS AND AWARDS

Honours and awards

International Masters Mobility Scholarship (MIEM) 2019-2020 as a part of the Initiative of Excellence (IdEx).

The IdEx is a program of investments for top higher education and research facilities inFrance.

MIEM is a competitive program that aims to promote the internationalization of master's programs and facilitate the arrival of the best international students in order to create a pool of excellence for the recruitment of future doctoral students.

2nd place in the Argentinian Informatics Olympics(OIA) 2012.

The OIA is a two rounded informatics competition. First round consists on pre-selection regional competitions. Second round is a national competition. In 2012, in the national round there were 22 participants in my category, where I achieved the 2nd place.

SCIENTIFIC DISSEMINA-TION

Scientific Dissemination

FICEN Science Fair

Facultad de Ingeniería y Ciencias Exactas y Naturales. Universidad Favaloro. Ciudad Autonoma de Buenos Aires, Argentina. Nov, 2017.

Four-dimensional Computed Tomography Study of the Tricuspid Annulus Deformation During the Cardiac Cycle

XXI Bioengineering Argentinian Society Congress. Córdoba, Córdoba, Argentina. Oct, 2017.

Feria del Libro

University Favaloro's stand. Scientific dissemination for the general public. Ciudad Autonoma de Buenos Aires, Argentina. April, 2018.