

CARLOS ANDRÉS MÉNDEZ G.

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KEY QUALIFICATIONS

- Data Scientist with interdisciplinary experience both in the Industry as in Academia
- PhD in Computer Science and Data Science specialization
- Expertise in applied Machine Learning, data analysis and modelling
- Passionate about communicating data science results to non-technical audiences
- Fluent in Python, R, MatLab and related tools
- Multilingual

EDUCATION

2010-2013 University of Verona. Italy.
Ph.D. Doctorate. Faculty of Computer Science
Thesis description: Methods for the fusion of multi-modal medical imaging data and unsupervised machine learning techniques for classification and assessment multi-dimensional information.

2006-2008 FH Technikum Wien. Vienna, Austria.
. Univ. of Applied Sciences of Vienna. Austria.
M.Sc. Master of Science in Biomedical Engineering
Thesis Topic: *Porcine model for CPR artifact generation in ECG signals.*

1999-2003 ITESO. Western Institute of Technology and
. Higher Education. Guadalajara, Mexico
B.Sc. Bachelor of Science in Electrical Engineering
Specialized in Control Theory

PROFESSIONAL SPECIALIZATIONS

2014-2015 Johns Hopkins University. Baltimore, USA.
Data Science Data Science specialization.
Certified online specialization composed of 9 courses and a Capstone Project.

WORK EXPERIENCE

Sep 2015–Present Data Scientist. Freelance Consultant
Verona, Italy. Data-driven projects for small businesses and development agencies.
Analytics and data management strategies tailored for the specific needs of clients.
Clustering models for market segmentation.

Jan 2013–Jan 2016 Post Doctoral Researcher
University of Verona Data analysis, processing and visualization of multi-modal information.
Machine learning and Pattern Recognition methods for medical data.
Predictive and unsupervised data modeling.
Supervision of student activities and selected undergraduate thesis.

	2012–2013	Teaching Assistant
University of Verona		Teacher for the laboratory in the undergraduate course: <i>Image Processing</i> Supervision of undergraduate projects.
	Oct 2007–May 2008	MSc Researcher
General Hospital of Vienna		Part of an interdisciplinary team for the joint project “CPR filtering algorithms for ECG analysis”. Thesis work: “Porcine model for CPR artifact generation in ECG signals”.
	Aug 2005–Jul 2006	Project Engineer
General Motors, Mexico		Development and implementation of project scheduling tasks. Installation and technical acceptance of dimensional systems. Data analysis and achievement of dimensional interior metrics. Elaboration of corrective action plans for out of specifications subassemblies.
	Jun 2004–Dec 2004	Project Engineer
Bystronic Laser AG, Niederoenz Switzerland		Development of a polarization measurement device. Development of software for data registration, data analysis, automation. Construction of the prototype hardware. Carrying out the test measurements. Data analysis and evaluation.

COMPLEMENTARY INFORMATION

<i>Languages</i>	SPANISH · Mother tongue	ENGLISH · Fluent
	ITALIAN · Fluent	GERMAN · Medium Level

<i>Awards</i>	COOPERINT MOBILITY GRANT
	Jun - Sept 2012
	Nanyang Technological University, Singapore Faculty of Electrical and Electronic Engineering
	Adviser: Prof. Pina Marziliano.

SKILLS

<i>Technical Skills</i>	Python	R	Matlab
	Data Analysis	Statistical Modelling	Machine Learning
	SQL	Hadoop	Spark
	Visualization	Technical Writing	LaTex
<i>Corporate Skills</i>	Project management	Problem Solving	Teamwork
	Communication	Public Speaking	Autonomy

PUBLICATIONS

Journal Papers

MULTIVIEW CLUSTER ENSEMBLES FOR MULTIMODAL MRI SEGMENTATION

Méndez, C.A., Summers, P., Menegaz, G.

International Journal of Imaging Systems and Technology.

Vol 25, Issue 1, pp. 56–67, 2015

DCE-MRI AND DWI INTEGRATION FOR BREAST LESIONS ASSESSMENT AND HETEROGENEITY QUANTIFICATION

Méndez, C.A., Pizzorni F., Summers, P., et al.

International Journal of Biomedical Imaging.

Special Issue on Advanced Signal Processing Methods for Biomedical Applications.

Vol. 2012, Article ID 676808, 8 pages, 2012

Conference Papers

A MULTI-VIEW APPROACH TO CONSENSUS CLUSTERING IN MULTI-MODAL MRI

Méndez, C.A., Simonetti F., Summers, P., Menegaz, G.

IEEE Int. Conf. on Acoustics, Speech, and Signal Processing (ICASSP) 2014

DIFFUSION MRI COMPARTMENTAL MODEL ANALYSIS OF DSI DATA

Zerbato F., Khan S., Zucchelli M., Méndez C.A., Graziera C. and Menegaz G.

IEEE International Conference on Healthcare Informatics 2014 (ICHI 2014)

A MULTI-VIEW APPROACH TO MULTI-MODAL MRI CLUSTER ENSEMBLES

Méndez, C.A., Summers P., Menegaz G.

SPIE Medical Imaging 2014

A MULTI-VIEW APPROACH TO MULTI-MODAL MRI CLUSTER ENSEMBLES FOR ASSESSMENT OF TUMORAL LESIONS

Méndez, C.A., Summers P., Menegaz G.

International Society for Magnetic Resonance in Medicine (ISMRM)

Diffusion as a Probe of Neural Tissue Microstructure Workshop, 2013

MULTIMODAL MRI-BASED TISSUE CLASSIFICATION IN BREAST DUCTAL CARCINOMA

Méndez, C.A., Pizzorni F., Summers, P., et al.

IEEE International Symposium on Biomedical Imaging (ISBI), 2012

INTEGRATION OF DIFFUSION AND PERFUSION IMAGES OF HUMAN BREAST CANCER BY REGISTRATION AND DISSIMILARITY-BASED CLUSTERING

Méndez, C.A., Pizzorni F., Summers, P., et al.

European Congress of Radiology, 2012

PORCINE MODEL FOR CPR ARTIFACT GENERATION IN ECG SIGNALS

Méndez, C.A., Roehrich, M., Gilly, H.

European Conference of the International Federation for Medical and Biological Engineering, 2008