

CURRICULUM VITAE (Résumé)

Jorge A. Márquez Flores, PhD

PERSONAL DATA

Given name (first name): **Jorge Alberto**
Surname (last name): **Márquez Flores**
Nationality: **Mexican**
Current Position: **“Investigador Titular A”, full time
= researcher, senior lecturer**
Department/laboratory: **Image Analysis and Visualization Laboratory**
Institution: **Centro de Ciencias Aplicadas y Desarrollo Tecnológico
CCADET-UNAM (Autonomous National University of Mexico)
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CV summary and qualifications: BS in PHYSICS + MS ELECTRIC ENGINEERING + DEA (MASTER) in MEDICAL AND BIOLOGICAL ENGINEERING in France + PhD in SIGNAL AND IMAGE PROCESSING in France, 1.5 years of postdoctoral position in France, appointed as full time researcher (senior lecturer) at the CCADET-UNAM, 17 papers in international journals, 39 works in international proceedings, 35 works in national proceedings, direction of 1 PhD thesis, 4 Master in Sciences thesis and 10 Bachelor in Science thesis and 9 years-teaching experience (at least 2 courses -8 hours per week- per year), regular reviewer for international and national journals and conferences..

Professional Experience: 26+ years of experience in computer science; 18 years of them in image processing applications at the (today named) *Image Analysis and Visualization Laboratory* of the (today named) “Centro de Ciencias Aplicadas y Desarrollo Tecnológico” (CCADET, aka “Centro de Instrumentos”), UNAM (National Autonomous University of Mexico); and 7+ years in France. Last 11 years in full time research. Invited Profesor in the Ecole Nationale Supérieure de Télécommunications, Paritech, France (2004, 2007), the Saint-Cyr Militar Academy in France (2011) and in The Auckland University in New Zealand (2008).

EDUCATIONAL QUALIFICATIONS

Postgraduate studies:

- PhD, *Traitement du Signal et des Images (TSI) Department* (Signal and Image Processing) of the *Ecole Nationale Supérieure de Télécommunications* de France-Télécom, Paris. Thesis advisor: **Francis Schmitt, PhD**. Research subject: *Analysis and Visualization of Three Dimensional Complex Structures*. Start date: October 1994. PhD obtained on april 6, 1999 with *Mention Très Honorable* (“very honorable mention”).
- “Diplôme d'Etudes Approfondies” (DEA Deep Studies Diploma) in Medical and Biological Engineering. Imaging Bio-engineering option. Université Créteil-Paris XII, 1993-1994. Memory subject: *Development of a Three-Dimensional Imaging Analysis System for Electronic Microscopy: Application to Dopaminergic Neuron Nuclei Study in the substantia nigra in Parkinson Disease*. Average notes (maximum: 20/20): 16/20 + “Mention Très Honorable”.

- "Maestría" (master) studies in Electric Engineering (Master of Science), in Signal Processing and Control, 1982-1984, Superior Studies Division (DEPFI), Engineering School of the UNAM. Average notes (maximum: 10.0): 9.2.

Graduate studies:

- "Licenciatura en Física" (Bachelor in Sciences + faculty thesis), 1977-1981, "Facultad de Ciencias" (School of Sciences), UNAM (National Autonomous University of Mexico). Average notes (maximum: 10.0): 9.5.

Thesis report subject: Automatic Acquisition of Data from the Multiple Techniques Chamber of the Institute of Physics of the UNAM, November 30, 1983.

Other studies:

Specialized and actualization courses in: computer science, microprocessors, software engineering, graphic interfaces, signal and image processing, fractals and chaos, image semiology, and scientific visualization. Standard programming skills: C++, operative systems, software design, OpenGL, Montecarlo simulation, professional packages for image analysis and visualization, microscopy, brain imaging, etc.).

Specialization fields:

- Computational Geometry and Computer graphics in two and three dimensions.
- Image processing in two and three dimensions.
- Fractal geometry - morphoanalysis of complex shapes and structures.
- Biological and medical imaging, and Physics applications.
- Scientific Visualization.

Spoken languages:

- SPANISH (mother tongue)
- ENGLISH (100% speaking; 100% reading; 100% writing)
- FRENCH (100% speaking; 100% reading; 100% writing).

Publications & Academic Production – file apart.

Last update: January 2011.

Jorge A. Márquez, PhD.