

Andrea Pulido

Curriculum Vitae

PERSONAL DETAILS

Birth: May 30, 1987

Address: Sint-Jansbergsesteenweg 101 Buz 05.06, Leuven - Belgium

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EDUCATION

- **Doctoral Training in Biomedical Sciences** **May 2020**
Katholieke universiteit Leuven
Leuven, Belgium
 - **Master in Biomedical Engineering** **2014**
Cum laude
(4.4/5.0)
Universidad Nacional de Colombia
Bogotá, Colombia
 - **B.Sc. Systems Engineering.** **2011**
(3.7/5.0)
Universidad de San Buenaventura
Bogotá, Colombia
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RESEARCH INTERESTS

My principal research interests' lies in the field of Machine Learning in medical Imaging. Developing and improving methods in Motion estimation, Pattern recognition. To find pathology-related patterns.

RESEARCH EXPERIENCE

- Deep learning for 3D motion estimation and computer-aided diagnosis in echocardiography

- **CIM@LAB Research Group** 2012 - 2015
Computer Imaging and Medical Applications Laboratory
<http://cimlaboratory.com/?lang=en&mod=profile&id=29>

Projects:

- Complex relationships between structural changes using brain MR imaging in early diagnosis of Alzheimer's disease. Master Thesis project.
Research Director: Eduardo Romero, Ph.D.
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SHORT COURSES

- 2nd Biomedical Image Analysis Summer School: Modalities, Methodologies & Clinical Research.
 - Host: Institut Henri Poincaré, École Centrale de Paris
 - Country: France
 - Date: 2013.
 - Description: This workshop is an official event of the prestigious Medical Image Computing and Computer Assisted Intervention Society (MICCAI).
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WORK EXPERIENCE

- **Globant**
Position: Semi Senior Advance Java Engineer,
Duration: Feb 2017 – April 2020
Duties: -Java Developer for the workforce and planning software for Southwest airlines
- Java Developer for maintenance area of southwest airlines.
- Database and information analysis to build reports and statistics.
- **Panamericana de Ingenieria**
Position: Senior Engineer,
Duration: Since April 2015 – Nov 2016
Duties: - Develop Information's System for several Engineering applications.
- Management and support activities (consultancy and training activities)
-Project Management.
- **Telemedicine Centre, Universidad Nacional de Colombia**
Position: Support Engineer
Duration: February 2013- March, 2015
Duties: - Technical support to processes related to provision of Telemedicine services.

- Develop of a transplantation Information System.
 - Follow up Clinical audit processes.
 - Management and support activities (servers and network)
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TEACHING EXPERIENCE

- **Professor, Engineering Faculty, Universidad Unihorizonte**

Position: Teacher – Database Management, Object Oriented Programming, Web Programing.

Duration: August 2016 – November 2016(Part Time)

Duties: - Teacher at Database Management, Object Oriented Programming, Web Programing.

- **Professor, Engineering Faculty, Universidad Nacional de Colombia**

Position: Teacher - Operations Research

Duration: September 2012 -January 2013

Duties: - Teacher Operations research I (course # 2024085) for engineering students

PRIZES, DISTINCTIONS AND SCHOLARSHIPS

1. **Cum Laude ("Mencion Meritoria")** Master´s thesis entitled "Complex relationships between structural changes using brain MR imaging in early diagnosis of Alzheimer´s Disease",

- See proof of the award notified on grade Act (Acta Grado MSc)

2. **Summer school scholarship**

- The award covered up the registration fees for the summer course and the accommodation fees. (Total Euro 900).

3. **Teaching Assistant Scholarship and tuition fees waver**

- The scholarship included tuition fees plus a salary support.

SKILLS

Languages

- Spanish (Mother Tongue)

- English (Fluent)

Software

- Matlab
 - LATEX
 - Java
 - Python
 - SQL Server, PostgreSQL, Oracle
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PUBLICATIONS

Publications (conference proceeding papers reviewed by peers)

1. Leon J., **Pulido A.** & Romero E. "Discovering anatomical patterns with pathological meaning by clustering of visual primitives in structural brain MRI". Proc. SPIE 9287, 10th International Symposium on Medical Information Processing and Analysis, 928705 (January 28, 2015); doi:10.1117/12.2073873 (<http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=2108476>), Oral presentation

Abstract

2. **Pulido A.**, Rueda A. & Romero E. "Extracting regional brain patterns for classification of neurodegenerative diseases". Proc. SPIE 8922, IX International Seminar on Medical Information Processing and Analysis, 892208 (November 19, 2013) doi:10.1117/12.2035515 (<http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1782971>), Oral presentation
3. **Pulido A.**, Rueda A., Romero E. & Malpica N., "Discovering Regional Pathological Patterns in Brain MRI," 2013 International Workshop on Pattern Recognition in Neuroimaging, Philadelphia, PA, 2013, pp. 152-156. doi:10.1109/PRNI.2013.47 (<http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=6603579>)
4. **Pulido A.**, Rueda A. & Romero E. "Classification of Alzheimer's disease using regional saliency maps from brain MR volumes". Proc. SPIE 8670, Medical Imaging 2013: Computer-Aided Diagnosis, 86700R (February 28, 2013); doi:10.1117/12.2007092 (<http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1658261>)

Abstracts (conference abstracts reviewed by peers)

1. **Pulido A.**, Rueda A. & Romero E. "Classification of Alzheimer's Disease using regional Saliency Maps from Brain MR Images". 8th International Seminar on Medical Image Processing and Analysis - SIPAIM 2013 (not indexed in proceedings), Oral presentation
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PROFESSIONAL REFERENCES

PhD. Professor Eduardo Romero,
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