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Education

Radboud University

M.S. IN COMPUTING SCIENCE, DATA SCIENCE SPECIALIZATION

Nijmegen, The Netherlands

2018 - 2020

Monterrey Institute of Technology and Higher Education

B.S. IN ELECTRONIC AND COMPUTER ENGINEERING

Oueretaro, Mexico

2008 - 2013

Relevant courses and thesis

Courses

FUNDAMENTALS

- Statistical Machine Learning
- Machine Learning
- Advanced Machine Learning
- Bayesian Networks
- Data Analysis
- Numerical methods

APPLICATIONS

- Intelligent Systems in Medical Images (CNNs)
- Machine Learning in Practice
- Machine Learning in Particle Physics and Astronomy
- Neural Information Processing Systems
- Data Mining
- Deep Learning

Master Thesis

Unsupervised out-of-distribution detection in digital pathology (PDF)

Radboud University

November 2020

Research/Work Experience

Computational Pathology Group, RadboudUMC

VISITING RESEARCHER IN MACHINE LEARNING

Nijmegen, The Netherlands Nov 2019 - Dic 2020

- · Implementing unsupervised deep learning techniques to detect lung cancer subtypes on digital pathology images
- Implementing unsupervised techniques to anomaly detection on digital pathology

Monterrey Institute of Technology and Higher Education

SOFTWARE ENGINEER

Guadalajara, Mexico

Jun 2015 - Dic 2020

· Implementing machine learning algorithms for human activity recognition using data generated by wearable sensors

Cosielsa

· Analyzing the feasibility of using Clifford algebra to common tasks on robotics such as rotations and reflections

ALGORITHM ENGINEER

Queretaro, Mexico

Aug 2013 - March 2015

• Implementing control systems algorithms to maximize energy consumption for water supply systems.

National Autonomous University of Mexico

Juriquilla, Mexico

RESIDENT Jun 2012 - Dec 2012

Honors & Awards

2019	Mexican National Council for Science and Technology Scholarship, 12 months scholarship	Mexico
2019	Orange Tulip Scholarship, 2nd year of the Master program	The Netherlands
2018	Orange Tulip Scholarship, 1st year of the Master program	The Netherlands

Projects/Publication

ADVANCED MACHINE LEARNING ASSIGNMENT (PDF)

Neural image compression for non-small cell lung cancer subtype classification

ACCEPTED IN THE SPIE CONFERENCE 2021 (DOI LINK)

August 2020

Path Integral control of a n joint arm using the variational approximation

March 2020

Coding skills

LANGUAGES Python, C++, C DEEP LEARNING LIBRARIES Pythorch, Tensorflow