Sergiu Oprea

Excited about Deep Learning, Computer Vision and AI

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EDUCATION

UNIVERSITY OF ALICANTE
PhD in Deep Learning and Computer Vision
2018–2021
Working on my PhD thesis related to video prediction, scene understanding and unsupervised learning.

M.Sc. in Automation and Robotics
Graduated on July 2017 | 9.33/10 GPA
M.Sc. Thesis: Deep Learning-based Human-Machine Interaction System: Gesture Recognition.

B.Sc. in Computer Science
Graduated on September 2015 | 7.52/10 GPA
High Academic Performance Group
B.Sc. Thesis: Hand Gesture Recognition for Human-Computer Interaction using low-cost RGB-D Sensors.

UNIVERSITY OF REY JUAN CARLOS
M.Sc. in Computer Graphics, Games and VR
2015–2016
Currently with two subjects to be done.

UNIVERSITY OF SALFORD
Erasmus Intensive Programme: Big Data
Manchester, UK

GRANTS AND AWARDS

2018	ACIF Grant for PhD Studies
2017	MSc in Automation and Robotics extraordinary award for best academic record.
2017	Research Initiation Grant
2014	Research Collaboration Grant

COURSES

UDACITY
2017	Self-Driving Cars Nanodegree - T1: Deep Learning
2017	Deep Learning Foundations Nanodegree
2016	Deep Learning by Google

COURSERA
Ongoing	Deep Learning Specialization (5 courses)
2016	Machine Learning (Andrew NG)

WORKSHOPS AND SUMMER SCHOOLS
2018	PUMPS+AI Summer School
2017	AERFAI Deep Learning Summer School
2013	Workshop on GPGPU programming
2013	Summer School on GPGPU programming
2013	OpenGL in depth
2013	RepRap 3D printers

WORK/RESEARCH EXPERIENCE

RESEARCH ENGINEER
University of Alicante
(2018) 6 months
- Paper (IROS 2018) -> The RobotriX: An eXtremely Photorealistic and Very-Large-Scale Indoor Dataset of Sequences with Robot Trajectories and Interactions.
- Focused on grasping system and robot mobility.

(2017) 6 months
- Worked on a human-machine interaction system deployed on Pepper robot to assist impaired.
- Implemented a gesture recognition system to help children with autism overcome language delays.

(2016) 6 months
- Developing an RNN-based system for oil spill detection using SLAR imagery from an unmanned aerial vehicle.

RESEARCH INTERN
University of Alicante
(2014–2015) 8 months
- Implemented a DTW-based Schaeffer language gesture recognition system.

(2014) 4 months
- Development of a physiotherapy support tool using a Microsoft Kinect sensor.

PUBLICATIONS

- Journals: ASOC, PRL, CVIU, NCA, etc.
- Conferences: IROS, IJCNN, ICPRAM, etc.
- Book chapters: ACVIP.

SKILLS

Focused on
Deep Learning, Computer Vision and Virtual Reality

Also interested in
GPGPU programming, 3D computer graphics and AI

Tools and libraries
PyTorch • Tensorflow • Keras • UE4 • Unity

Programming
Python • C and C++ • CUDA • LATEX • Java • Matlab

LANGUAGES

English	Limited working proficiency (B2+)
French	Elementary proficiency (A2)
Spanish	Native proficiency
Romanian	Native proficiency