

Condrea Florin



Machine Learning  
Researcher

## CONTACT

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## EDUCATION

### ROMANIAN ACADEMY NOV 2020 - PRESENT

PhD Degree in Medical AI

PhD candidate under the supervision

of Marius Leordeanu

Theme: Deep visual learning models for medical  
imaging and analysis

### UNIVERSITY OF BUCHAREST OCT 2018 - JUL 2020

Master's Degree in Artificial Intelligence

Thesis: Vital sign detection in the thermal domain

GPA: 9:34

using synthetic data

### UNIVERSITY OF BUCHAREST OCT 2015 - JUL 2018

Bachelor's Degree in Mathematics and Informatics

Thesis: Predictive models for Subscriber Intelligence

GPA: 9:06

Service

### "OVIDIUS" UNIVERSITY OF CONSTANTA OCT 2015 - JUL 2018

Bachelor's Degree in Economy and Commerce of

GPA: 9:90

Tourism and Services - At Distance

## SUMMER SCHOOLS

Eastern European Machine Learning Summer

School 2019, 2021, SSIMA 2022, HTF 2024

## TECHNICAL SKILLS

### Programming

C++, Python

### Languages:

### Frameworks:

Tensorflow, Keras,  
Pytorch, Apache Spark, OpenCV

### Concepts:

Computer Vision, Deep Learning,  
Generative Adversarial Networks,  
Self Supervised Learning,  
Object Oriented Programming,

## EXPERIENCE

### SIEMENS - BUCHAREST, RO

Computer Vision Engineer March 2021 - Present

- Deep Learning - Computer Vision
- Approached applications of machine learning in the medical field using Python and Pytorch
- Developed state of the art model for Pulmonary embolism detection

### ARNIA SOFTWARE - BUCHAREST, RO

Research Engineer

SEP 2018 - March 2021

- Machine Learning - Computer Vision
- State of the art computer vision projects using Python, Tensorflow, Pytorch and Keras
- Approached multiple Computer Vision tasks using the state-of-the-art at the time approaches, as an machine learning researcher:
  - Object Detection, using Faster RCNN and SSD, integrated with domain adaptation techniques
  - Object tracking, using both tracking by detection via detection matching and template matching with Siamese Networks
  - Action Recognition and Active Speaker Recognition using SOTA methods and a custom facial landmark based approach, with which we participated at ActivityNet Challenge 2019
  - Drug Discovery and Drug Property Estimation
  - Vital Sign Detection, using both classical computer vision and signal processing approaches, as well as a custom approach which resulted in a CVPRW accepted paper
  - Human Keypoints Detection
  - Image Inpainting

### ADOBE SYSTEMS - BUCHAREST, RO

Graduate Diploma Intern

Feb 2018- May 2018

- Machine Learning - Recommender Systems
- Developed my Bachelor Diploma Project, a recommender system for media content

# EXPERIENCE

## BITDEFENDER - BUCHAREST, RO

Software Developer Intern Jul 2017- Sep 2017

- Object oriented programming and multi-threading in C++

# TEACHING

## UNIVERSITY OF BUCHAREST

Object Oriented Programming Tutoring Feb 2017- Jun 2017

## UNIVERSITY OF BUCHAREST

Machine Learning in Visual Arts Course Feb 2020- June 2020

# ACHIEVEMENTS

- Romanian Research Gala 2024 - 1st place research group in computer science
- 3rd place at ActivityNet Active Speaker Detection Challenge at CVPR 2019
- Best poster award at AIRoDays 2023
- Siemens internal "Innovation excellence award" 2024

# TALKS

- Panellist in Healthcare AI panel at UK - Romania Conference "Exploring our AI Potential"
- Talk at medical congress CardioNet 2025

# ACADEMIC VOLUNTEERING

- Member of several Program Committees of conferences, including a CVPR workshop and TPAMI journal, acting as a paper reviewer

# LANGUAGES

- Romanian - Native
- English - C1
- German - B1

# PUBLICATIONS

## PUBLICATION HIGHLIGHTS

### WITH FULL LIST ON GOOGLE SCHOLAR

- In Search of Life: Learning from Synthetic Data to Detect Vital Signs in Videos accepted at CVPRW 2020
- Anatomically aware dual-hop learning for pulmonary embolism detection in CT pulmonary angiograms ( 2024, Journal IF 7.3 )
- Accuracy of a deep neural network for automated pulmonary embolism detection on dedicated CT pulmonary angiograms ( 2025, Journal IF 3.2 )

