



# Onur Copur

## MSc in Data Science

+39 348 054 2142

Rome, Italy

onurcopur12@gmail.com

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## Work Experience

### Computer Vision Intern, Belgium

**BARCO | March 2021 - October 2021**

Developed an end-to-end deep learning-based system that detects the engagement level of a subject in a given video as part of my master's thesis. The model extracts features using CNNs and encodes the feature sequences with RNNs (specifically, Bi-LSTM).

### Data Scientist, Turkey

**Univera Computer Systems | May 2018 - August 2019**

Created a time series forecasting tool for retail and tobacco producers with deep learning (RNNs) and machine learning algorithms (SVM, elastic net regression, and ARIMA). Moreover, developed a genetic algorithm-based periodic route optimization method to solve the routing problem of FMCG distributors.

## Education

### M.Sc. in Data Science

**Sapienza University, Rome | September 2019 - October 2021**

GPA: 110/110 - graduated with honors (magna cum laude)

Thesis: "Engagement Detection in e-Learning Environments"

### B.Eng. in Industrial Engineering

**Yasar University, Izmir | September 2015 - June 2019**

GPA: 3.77/4 - graduated with honors (magna cum laude)

Thesis: "Periodic Route Optimization for FMCG Distributors"

## Projects

### Video Emotion Recognition

**November 2021 - Present**

Developing a multi-task deep learning model with triplet loss for emotion recognition in videos.

### Video Pose Estimation

**July 2021 - September 2021**

Adversarial training of a temporal motion generator together with an attention-based motion discriminator.

### Image Search Engine

**September 2021 (2 week-long project)**

In a Google Training Camp Competition, we developed an attention-based image captioning method that uses InceptionV3, which won the first place.

### Object Detection

**July 2020 (2 week-long project)**

Landmark detection and population estimation with the help of satellite images.

## About me

Data scientist with research interests in computer vision and NLP. Proficient in predictive modeling and data processing. Highly skilled in Python programming, MLOps and deep learning frameworks. Interested in Data Scientist, Machine Learning and Computer Vision Engineer positions.

## Computer Skills

### Programming Language:

Python, R, MATLAB, VBA, SQL, Java

### Frameworks/Libraries:

PyTorch, TensorFlow, OpenCV, scikit-learn, pandas, NumPy

### Other Software/Tools:

Git, Apache Hadoop, Spark, Docker, MongoDB, Neo4J, AWS

## Language Skills

**Turkish** (Native)

**English** (Advanced)

TOEFL IBT 94/120

**Italian** (Beginner)

## Publications

Nakip, M., Çopur, O. & Güzelis, C. (2021). Comparative Study of Forecasting Models for COVID-19 Outbreak in Turkey. Innovations in Intelligent Systems and Applications Conference (ASYU), pp. 1-6.

Çopur, O. et al. (2020). Periodic Route Optimization for FMCG Distributors. In N. Durakbasa & M. Gençyılmaz (Eds.), Proceedings of the International Symposium for Production Research (ISPR) 2019. Springer.

## References

### Jürgen Slowack, PhD

R&D Project Manager, BARCO

jürgen.slowack@barco.com

### Assist. Prof. Simone Scardapane

Sapienza University, Rome

simone.scardapane@uniroma1.it

### Prof. Fabio Galasso

Sapienza University, Rome

galasso@di.uniroma1.it