Gianluca **Scarpellini**

COMPUTER VISION · DEEP LEARNING RESEARCHER

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Education

Università degli studi di Milano - Bicocca   *Milano, Italy*

B.S. IN COMPUTER SCIENCE **(110L/110)**   *2015 - 2018*

M.S. IN COMPUTER SCIENCE   *2018 - present*

Experience

ARGO Vision   *Milano, Italy*

DL RESEARCH INTERN   *May 2019 - Present*

- Aerial Semantic segmentation (Keras)
- Image classification in smart parking field (Keras)
- Plate Detection & OCR (Keras, Darknet)

Flash Delivery   *Bergamo, Italy*

BACK-END DEVELOPER   *Jun 2017 - Sep 2019*

- Server developing (ASP.NET, Node.JS)
- Database maintenance (SQLServer, MongoDB)

BergamoPost   *Bergamo, Italy*

FREELANCE JOURNALIST   *Sep 2016 - Sep 2017*

- Working independently during University
- Communication and synthesis skills

Projects

On road object detection from RGB and LIDAR data github   *Image and Vision Lab, Unimib*

B.S. THESIS — PYTHON   *Feb 2018 - Jul 2018*

- Generate RGBD from RGB and LIDAR data
- Object detection & recognition models (Pytorch, Darknet)
- Benchmark dataset (Kitti BenchmarkS Suite)

Chess Detection github   *Digital Image Processing*

UNIVERSITY PROJECT — MATLAB   *Jen 2018*

- Generating FEN strings from images containing a chessboard
- Chessboard detection and geometry perspection correction (Image Processing Toolkit)
- Chessboard lines identification (Computer Vision Toolkit)
- Chess pieces classification (Deep Learning Toolkit)

Chorals HMM github   *Probabilistic graphical models*

UNIVERSITY PROJECT — PYTHON   *Sep 2019*

- Music sheet prediction and generation using temporal models (Pomegranate, own made framework)
- Music generation and exploration (music21)

Skills

Computer skills and frameworks

PROFICIENCY IN

- Python *(OpenCV, Tensorflow, Pytorch, Keras, Scikit-learn)*
- Matlab *(Matlab Computer Vision toolkit, Image Processing Toolkit)*
- Node.js *(Express, Mongoose)*
- .NET *(C#, SQLServer, WCF)*

Languages

PROFICIENCY IN

- **Italian** — Mother tongue
- **English** — Business fluent