Filippo Grazioli

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Education

RWTH Aachen University   **September 2015 – October 2016**
Erasmus+   *Aachen, Germany*

Polytechnic University of Turin   **October 2014 – March2017**
Master of Science (cum laude) in Automotive Engineering   *Turin, Italy*

University of Ferrara   **September 2011 – October 2014**
Bachelor of Science (cum laude) in Mechanical Engineering   *Ferrara, Italy*

Experience

NEC Laboratories Europe   **July 2020 – present**
Research Engineer   *Heidelberg, Germany*
- Machine learning for precision immuno-oncology: MHC-peptide binding/presentation prediction, TCR-peptide and TCR-pMHC interaction prediction, personalized neoantigen-based cancer vaccines.
- Machine learning for multimodal microbiome-based disease prediction.
- Digital twins for vaccine optimization.

Bosch Engineering   **July 2018 – July 2020**
Software Engineer   *Abstatt, Germany*
- Embedded C++ perception algorithms for monocular cameras for ADAS and autonomous driving.
- Road sign recognition.
- ROS prototype development.

Ferrari   **October 2017 – June 2018**
Visiting Researcher (enrolled as PhD student at the University of Modena and Reggio Emilia)   *Maranello, Italy*
- Computer vision for driver monitoring with depth and RGB images.
- Depth estimation with GANs from monocular RGB images.
- Multimodal face verification from RGB and depth.

RWTH Aachen University, Chair of Software Engineering   **May 2017 – September 2017**
Researcher   *Aachen, Germany*
- Model-based software engineering, UML/SysML.

RWTH Aachen University, Institute of Automotive Engineering   **June 2016 – February 2017**
Student Research Assistant   *Aachen, Germany*
- Eye-tracking and driver behaviour understanding for autonomous driving.
- Master thesis: *Development of a Driver State Detector for Autonomous Vehicles.*

Technical Skills

Computer vision: Multimodal learning from depth and RGB images, object detection, segmentation
Machine learning: Deep learning, geometric deep learning, variational inference, information bottleneck
Relevant libraries: PyTorch, PyTorch Geometric, DGL, Tensorflow/Keras, Transformers, Scikit-learn, ROS, OpenCV
Languages: Python, C, C++
Software development: Docker, Git, Scrum, Jira, GitLab, Continuous Integration

Languages

Italian: Mother tongue   **English**: Fluent   **German**: Fluent   **Spanish**: Basic

Interests

Favourite movie directors: David Lynch, Martin Scorsese
Favourite writers: Jorge Luis Borges, Gabriel García Márquez
Hobbies: Photography, swimming, playing guitar, cooking