

Stefano Fogarollo — Curriculum Vitae

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 in sirfoga

Quidquid latine dictum sit, altum sonatur

Education

Enrico Fermi

High school

Liceo Scientifico

Padova, IT

Sep 2009 - Jul 2014

Università degli Studi di Padova

BSc

Computer Science

Padova, IT

Oct 2015 - Jul 2019

TU Dresden

MSc

Computational Modeling and Simulation, Computational Life Sciences

Dresden, DE

Oct 2019 - Sep 2021

IGDT

PhD

Fast, non-rigid image fusion using deep learning for SRFA evaluation

Innsbruck, Austria

Nov 2021 - ongoing

Bachelor thesis

Title: *Implementing IEC 60870-5-104 in XMonitor gateway*

Supervisors: Vittorio De Zuane (ThisOne!), Armir Bujari (Università degli Studi di Padova)

Abstract: Developing a GNU/Linux Qt-based app capable of collecting data via radio/modbus and broadcasting it to Monet via IEC 60870-5-104 protocol

MSc thesis

Title: *3D human pose estimation in the wild*

Supervisors: Edoardo Remelli and Sina Honari (EPFL), Bjoern Andres and Stefan Gumhold (TU Dresden)

Abstract: Current standard pipelines assume to have training data in the form of images, camera information, 3D annotations. Such information can only be retrieved in controlled settings, and therefore current pipelines do not work well in the wild (where we don't have access to camera information). The goal of this MSc thesis is to train a neural network only on images and 2D pose information to learn camera information and 3D pose of the human in an unsupervised fashion. This allows the pipeline to work in the wild.

Internship

Zucchetti

Software developer, UML robustness diagrams
Java, JavaScript (ECMAScript), MySQL, UML

Padova, IT
Apr 2018 - Jul 2018

ThisOne!

Software engineer, IOT, Industrial automation
C/C++, Lua, Qt, OpenWrt

Noventana, IT
Feb 2019 - Jun 2019

Amadeus IT Group SA

Software developer, departure control system
C/C++, ORACLE RDBMS

London, UK
Aug 2019 - Sep 2019

Work Experience

Atroos S.r.l.

Full-stack software developer, industry 4.0, predictive maintenance
Node.js, React, MongoDB

Noventana, IT
Oct 2018 - Aug 2019

Scuola Normale Superiore

Full-stack software developer, Cosmology Group
Python 2/3, Apache 2 on CentOS 6+, JupyterHub, Flask, React 15/16

Pisa, IT
Feb 2019 - Feb 2020

Compass Flight Instruments S.r.l.

Embedded software developer, free-flight instruments
C/C++, Embedded Linux, GTK+ 3, BlueZ

Castelfranco Veneto, IT
June 2019 - June 2020

Research

ZIH, TU Dresden

Software developer, HPC
C/C++ 11, Dash, OpenMPI, Fortran95

Dresden, DE
Jan 2020 - November 2020

MPI-CBG

Software developer, dynamic load balancing, Python-C++ bindings
C/C++ 11, OpenFPM

Dresden, DE
June 2020 - December 2021

BIOTEC, TU Dresden

Software engineer, COVID-19 AASD modeling
Matlab

Dresden, DE
April 2020 - July 2020

Groupe Weigert, EPFL

Research assistant, attention methods in image segmentation
Python, Keras

Lausanne, CH
October 2020 - March 2021

LPBS, EPFL

Research assistant, GANs for microscopy images
Python, PyTorch

Lausanne, CH
November 2020 - February 2021

CVLAB, EPFL

MSc thesis, 3D human pose estimation in the wild
Python, PyTorch

Lausanne, CH
February 2021 - September 2021

IGS, LFU

PhD, Deep learning for SRFA evaluation
Python, PyTorch

Innsbruck, Austria
November 2021 - ongoing

Publications

Towards liver segmentation in the wild via contrastive distillation <i>S. Fogarollo, R. Bale, M. Harders</i> Intuitive Young Investigator Award, IPCAI	IJCARS 2023
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Teams

C.O.F.F.E.E. <i>Liceo Enrico Fermi Robotics Team</i> Physics I, Game Theory	Padova, IT <i>Sep 2013 - Feb 2014</i>
Morpheus <i>Università degli Studi di Padova Rover Team, safety controller</i> C++, ROS	Padova, IT <i>Sep 2014 - Sep 2015</i>
Quartodilitro <i>Università degli Studi di Padova Motostudent Team, sensors, dashboard</i> Qt, C/C++, GNU/Linux	Padova, IT <i>Oct 2015 - Oct 2016</i>
Race UP <i>Università degli Studi di Padova FS Team, controlunit, web, CI</i> HTML & CSS & JS, Android 8, Python 2/3, Java, C/C++, Arduino	Padova, IT <i>Oct 2016 - Sep 2019</i>
Elbflorace <i>TU Dresden FS Team, target speed optimization in DV</i> C++, Python 2/3, ROS, Matlab	Dresden, DE <i>Oct 2019 - May 2020</i>

Individual competitions

National mathematics contest <i>Finalist</i>	Cesenatico, IT <i>May 2012</i>
Patavina Mathesis <i>5th</i>	Padova, IT <i>March 2013</i>
Patavina Mathesis <i>3rd ex-aequo</i>	Padova, IT <i>March 2014</i>
Regional physics contest <i>Bronze</i>	Padova, IT <i>April 2014</i>

Team competitions

National mathematics contest <i>Finalist</i>	Cesenatico, IT <i>2012 - 2014</i>
Zerorobotics <i>Winner</i>	Amsterdam, Netherlands <i>21 January 2014</i>
Motostudent IV Edition <i>3rd position</i>	Aragon, Spain <i>4-9 October 2016</i>
FSAE Italy <i>Winner</i>	Varano de' Melegari, IT <i>19-23 July 2017</i>

FSAE Italy

8th

FSAE Italy

7th

FSG

19th

Varano de' Melegari, IT

11-15 July 2018

Varano de' Melegari, IT

24-27 July 2019

Hockenheimring, DE

5-11 August 2019

Hackthons

Hack Unipd

POPUP

Winner

Hack Technogym

Gymtonic

Finalist

Droidcon

Doorbell

Winner

NASA Space Apps

Design by nature

ESA Space your App

Mushy

Winner

Hack Zurich

MeGrow

Hack Zurich

TrackBuster

Porsche Digital Production Hackathon

WeCare

Padova, IT

20-21 June 2015

Roncade, IT

17-18 October 2015

Torino, IT

9-10 April 2016

Vicenza, IT

20-21 October 2018

Padova, IT

24-26 October 2018

Zurich, CH

18-20 September 2020

Zurich, CH

24-26 September 2021

Leipzig, DE

29 September - 1 October 2021

Languages

Italiano: Professional working proficiency

mother tongue

English: Professional working proficiency

B2, FCE

Français: Limited working proficiency

A1, DELF

Deutsch: Limited proficiency

A1, TUDIAS