

I am broadly interested in **Probabilistic Machine Learning**, Geometry and Perception, with a focus on **Deep Generative Modelling**. Curious about Probabilistic Agents and Causal Inference.

Education

PhD, Statistical Machine Learning

DTU, Copenhagen, Denmark

- Supervisor: Ole Winther; Co-supervisor: Søren Hauberg
- Few-Shot Generative Models

June 2020 - Present

Master's Degree, Data Science

Sapienza University, Rome, Italy

- Excellence Path & Summa cum Laude
- Thesis: Multimodal Learning for Scene Understanding
 - Researched on Semantic Segmentation and Depth estimation

Sept 2016 - Nov 2018

Master's Degree, Mechanical Engineering

Sapienza University, Rome, Italy

- Summa cum Laude
- Thesis: Bubble Dynamics in Turbulent Shear Flows
 - Post-processed a DNS to characterize Cavitation Models

Sept 2014 - Jan 2017

Bachelor's Degree, Mechanical Engineering

Sapienza University, Rome, Italy

- Thesis: Rapid prototyping of metallic manufacturing
 - Analysis of the state of the art regarding rapid prototyping techniques

Sept 2009 - May 2014

Experience

Research Engineer, NNAISENSE

Lugano, Switzerland

Structured Latent Variable Models

Jan 2019 - Jan 2020

- Research in Representation Learning and Perception

Machine Learning Engineer, Pi Campus

Rome, Italy

NLP for industrial applications

Oct 2018 - Dec 2018

Intern, argmax.ai, Data:Lab

Munich, Germany

Probabilistic Models for Perception

Sept 2018 - Oct 2018

- Prototyped a library for generative models

Research Intern, Naver Labs Europe

Grenoble, France

Computer Vision and Deep Learning for Scene Understanding

Feb 2018 - Aug 2018

- Developed a research paper and a patent

Intern, ViDA Lab

New York University, NY, USA

Analysis of Text Datasets based on Entities Retrieval

Sept 2017 - Jan 2018

- Built an interactive tool to investigate 10M documents

Co-Founder, SecretAIry (formerly GAiA)

Rome, Italy

Chatbots to enhance Workplace Communication

July 2017 - Jan 2019

- Selected among 100+ startups to participate in the EnLabs Incubator

Publications & Research Projects

No Representation without Transformation (extended-version) <i>Giannone, Saremi, Masci, Osendorfer</i>	under-review 2020
Input-filtering NeuralODEs for spiking data <i>Giannone, Anoosheh, Quaglino, D'Oro, Masci, Gallieri</i>	arXiv 2020
\mathcal{T}_{VAE} - No Representation without Transformation <i>Giannone, Masci, Osendorfer</i>	NeurIPS-W 2019
Learning Common Representation from RGB and Depth Images <i>Giannone, Chidlovskii</i>	CVPR-W 2019

Conferences & Summer Schools

EEML 2020 Deep Learning and Reinforcement Learning	Krakov, Poland July 2020
RegML 2020 Regularization Methods for Machine Learning	Genova, Italy July 2020
NeurIPS 2019 Workshop presentations - BDL & PGR	Vancouver, Canada Dec 2019
CVPR 2019 Workshop presentation - Multimodal Learning and Applications	Long Beach, CA, USA Jun 2019
NeurIPS 2018 Student Volunteer	Montreal, Canada Dec 2018
Zurich Summer School Uncertainty Quantification for PDEs	ETH, Zurich, Switzerland Aug 2018
Deep Learning Summer Program Participation Grant, 12% acceptance rate	Tsinghua University, Beijing, China Jul 2018 - Aug 2018
PAISS Summer School Participation Grant and Volunteer	Inria, Grenoble, France Jul 2018

Awards

Participation Grant, Perception as Generative Reasoning Workshop Free conference registration	NeurIPS 2019 Oct 2019
Participation Grant, Pi School Full tuition covered to participate in the School of Artificial Intelligence 3% acceptance rate	Rome, Italy Oct 2018
Certificate of Award, Tsinghua University Prize for outstanding accomplishments (Top 6)	Beijing, China Aug 2018
Certificate of Achievement, Naver Labs Europe Prize for the best internship performance	Grenoble, France Jul 2018
1st Pick, Excellence Path, Master's Degree, Data Science Admission based on the first year's academic achievements Participation in activities at the School for Advanced Studies	Rome, Italy Mar 2018

1st Place, Global AI Hackathon, Italian Edition

Our team built GAiA, a working assistant chatbot

We won three prizes: Challenge Microsoft, People's Choice, Product Market Fit

Rome, Italy

Jun 2017

Skills

Languages

- Python (proficient); R, Matlab (good knowledge); C, Java, JavaScript (basic knowledge)

Tools

- AWS, CUDA, CVX, Git, Linux, MongoDB, MySQL, NLTK, OpenCV, PyTorch, TensorFlow

Miscellaneous

Online Certified Education

- Machine Learning (Oct 2016), Deep Learning (Aug 2017) [Coursera]
- Computer Science (Nov 2016), Artificial Intelligence (Apr 2017) [edX]
- Self-Driving Cars Nanodegree, 1st term (Dec 2017) [Udacity]

Associations

- Italian Association for Machine Learning (IAML)
- ContinualAI