

Giorgio Giannone

linkedin/giorgio-c-giannone

gigi@dtu.dk

github/georgosgeorgos

I am broadly interested in Probabilistic Machine Learning, Perception and Geometry, with a focus on **Deep Latent Variable Models, Few-Shot Generation, Transfer Learning** and **Diffusion Models**.

Education

PhD, Statistical Machine Learning

Technical University of Denmark, Lyngby, 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

Applied Science Intern, Amazon

Domain Agnostic Subpopulation Generalisation

Cambridge/London, UK

July 2021 - Oct 2021

Research Engineer, NNAISENSE

Structured Latent Variable Models

Lugano, Switzerland

Jan 2019 - Jan 2020

- Research in Representation Learning and Perception

Machine Learning Engineer, Pi Campus

NLP for industrial applications

Rome, Italy

Oct 2018 - Dec 2018

Intern, argmax.ai, Data:Lab

Probabilistic Models for Perception

Munich, Germany

Sept 2018 - Oct 2018

- Prototyped a library for generative models

Research Intern, Naver Labs Europe

Computer Vision and Deep Learning for Scene Understanding

Grenoble, France

Feb 2018 - Aug 2018

- Developed a research paper and a patent

Intern, ViDA Lab

Analysis of Text Datasets based on Entities Retrieval

New York University, NY, USA

Sept 2017 - Jan 2018

- Built an interactive tool to investigate 10M documents

Co-Founder, SecretAIry (formerly GAiA)

Chatbots to enhance Workplace Communication

Rome, Italy

July 2017 - Jan 2019

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

Publications & Research Projects

Just Mix Once: Mixing Samples with Implicit Group Distribution <i>Giannone, Havrylov, Massiah, Yilmaz, Jiao</i>	under review 2021
Hierarchical Few-shot Generative Models <i>Giannone, Winther</i>	under review 2021
Transformation-aware Variational Autoencoders <i>Giannone, Saremi, Masci, Osendorfer</i>	preprint 2020
Input-filtering NeuralODEs for spiking data <i>Giannone, Anoosheh, Quaglino, D'Oro, Masci, Gallieri</i>	NeurIPS-W 2020
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

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, CVX, Git, Linux, MongoDB, MySQL, NLTK, OpenCV, PyTorch, TensorFlow

Miscellaneous

Online Certified Education

- Coursera: Machine Learning (Oct 2016), Deep Learning (Aug 2017).
- edX: Computer Science (Nov 2016), Artificial Intelligence (Apr 2017), CS50 (Jan 2021), Math for Quantitative Finance (Oct 2021).
- Udacity: Self-Driving Cars Nanodegree, 1st term (Dec 2017).

Associations

- Italian Association for Machine Learning (IAML)
- ContinualAI