



**Alessio
Ansuini**

DATE OF BIRTH:
29/08/1975

CONTACT

Nationality: Italian

Gender: Male

Località Padriciano, 99, Via
Rossetti 47
34141 Trieste, Italy

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WORK EXPERIENCE

09/2019 - CURRENT - Trieste, Italy

Research Technologist

Area Science Park

- Coordination of the scientific activities of the Research and Technology Institute
- Individuation of the strategic scientific directions and coordination of their execution
- Team management and development

2021 - CURRENT - Trieste, Italy

Contract professor

University of Trieste

Teacher of the course "Deep Learning" for the Master in Data Science and Scientific Computing (DSSC)

01/2014 - 06/2019 - Trieste, Italy

Research Fellow

SISSA Scuola Internazionale di Studi Superiori Avanzati

- Analysis of representations in artificial and biological networks
- Decoding latent information in cortical populations
- Characterization of synchronization processes in neural populations
- Modeling the integration of visuo-tactile information
- Development of high-dimensional models for inference of perceptual strategies

01/2011 - 07/2013 - Trieste, Italy

Research Fellow

SISSA Scuola Internazionale di Studi Superiori Avanzati

- Modeling neural growth cones dynamics during neural circuits development in vitro
- Analysis of single-neuron and population-level electrophysiological data

EDUCATION AND TRAINING

2015 - 2016

Master in High Performance Computing

SISSA/ICTP

Field(s) of study

- Information and Communication Technologies

Advanced Machine Learning Algorithms in Biological Vision | <https://mhpc.it/>

11/2005 - 10/2009 - Piazzale Aldo Moro 5, Roma, Italy

PhD in Physics

Sapienza Università di Roma

<https://web.uniroma1.it/>

1997 - 2005 - Piazzale Aldo Moro 5, Roma, Italy

● Master Degree in Physics

Sapienza Università di Roma

Field(s) of study

◦ Natural sciences, mathematics and statistics

110/110 | Non reversible Stochastic Differential Equations : Problems of Large Fluctuations | <https://web.uniroma1.it/>

PUBLICATIONS

● Hierarchical nucleation in deep neural networks

2020 <https://arxiv.org/abs/2007.03506>

● Investigating Similarity Metrics for Convolutional Neural Networks in the Case of Unstructured Pruning

2020 https://link.springer.com/chapter/10.1007/978-3-030-66125-0_6

● Intrinsic dimension of data representations in deep neural networks

2019 <https://arxiv.org/abs/1905.12784>

CONFERENCES AND SEMINARS

2019 - 2019 > - Vancouver (Canada)

● NeurIPS

<https://nips.cc/Conferences/2019/>

2020 - 2020 > - Vancouver (Canada) -online for the pandemics

● NeurIPS

<https://nips.cc/Conferences/2020/>

DIGITAL SKILLS

Pytorch / Python / Linux / Machine Learning / Deep Learning / Git

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

OTHER LANGUAGE(S):

English

Listening
C2

Reading
C2

**Spoken
production**
C1

**Spoken
interaction**
C1

Writing
C1
