

Seydina Ousmane NIANG

Phd Student



About me

I am a PhD student in applied mathematics, specializing in **graphs theory**. My research focuses on **deep probabilistic graphical models** for the analysis of **networks** with **continuous attributes**.

Contact

Born on 08/09/1998
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 Nice , France
 Seydina Ousmane NIANG

Languages

Wolof - Native Language
 French - Fluent
 English - Fluent

Soft Skills and Strengths

Creativity Curiosity Flexibility
Self Confidence Ability to Plan and Organize
Autonomy Team Working Leadership
Good Listener Patience

Professional Skills

Pytorch Tensorflow Keras Scikit-Learn
Python/R

Other Interests

- Taekwondo
- Gym
- Football
- Movies

EDUCATION

Nov-2023-
Ongoing



Phd in applied mathematics
Côte d'Azur University

Nice , France

Deep latent variable models for the joint analysis of networks and continuous data

2022-2023



M2 Data Science - Artificial Intelligence Paris , France
Ecole Polytechnique **Paris-Saclay University**

Data Science

deep learning reinforcement learning statistical learning
optimization big data graph theory NLP

2021-2022



M1 Paris France
Paris- Saclay University
Applied Mathematics

statistics optimization machine learning probabilities
time Series operational research deep learning

2020-2021



Magister Degree Paris France
Paris-Saclay University
Pures Mathematics

Strong knowledge of fundamental mathematics including probability, statistics, dynamical systems and algebra

2020-2021



Bachelor Paris France
Paris-Saclay University

Double bachelor mathematics and informatics
Basics on mathematics and computer sciences

WORK EXPERIENCE

May/Sep-
2022

Internship Deep Learning:Neural Differentials Equations Paris, France

Laboratoire de Mathématiques d'Orsay

Neural Differential equation Pharmacokinetics Pytorch
torchdyn Pytorch Lightning

February/June-
2020

Supervised Research Work Paris, France
Notion of free groups on any set X and properties of their subgroups

Nov-2023-
Ongoing

PhD Nice, France
Deep generative models for the joint analysis of network and continuous data
INRIA, MASSAI

Publications

NIANG Seydina Ousmane et al. (Jan 2025) "The Deep Zero-Inflated Latent Position BlockModel for the Clustering of Nodes in Graphs"

NIANG Seydina Ousmane et al. (May 2025) "Importance weithing graph variational autoencoder for the clustering of nodes in complexe networks "

NIANG Seydina Ousmane et al. (Nov 2024) "The Deep Latent Position Block Model for the Clustering of Nodes in Multi-Graphs"

NIANG Seydina Ousmane et al. (May 2024)"Conditional Denoising Diffusion Probabilistic Models for the Clustering of Images"