

WHO AM I

I am leveraging my Master's program to fuse my extensive background in physics and astronomy with state-of-the-art technology. My objective is to become a professional who synthesizes these domains, acting as a catalyst for innovative projects and experimental initiatives.

SKILLS

Python - R - MySQL - Bash - ML/DL: Pytorch, Optuna, ScikitLearn, Keras - Distributes systems: Dask, NFS, Kafka, Apache Spark - Linux - C, Cuda-C -

PROJECTS

Projects

- Hierarchical mergers of black holes [**Data visualization + Random Forest**]
- Notes of General Relativity [**Vim + Latex**]
- Miscellaneous DL and ML algos [**ScikitLearn+Keras, Restricted Boltzmann machines, XGBoost, Clustering**]
- Bayesian networks [**R, Simulated Annealing, K2 algorithm**]
- GalaxyClassifier-CNN [**Pytorch, Optuna**]
- Cord19 Analysis [**Dask, Cluster management, SSH, NFS, MapReduce, NLP: word2vec + Cosine Similarity**]
- Carrom Tournament Bot [**Telegram Bot API, Docker, MySQL**]

EDUCATION

University of Padua

Student of Physics of Data

2024-

University of Padua

Bachelor in Astronomy

2019-2024

- Thesis: Formazione di sistemi binari buco nero-stella: il caso di Gaia BH1 e Gaia BH2. Supervisor: Prof. Giuliano Iorio. Co-supervisor: Prof.ssa Sara Rastello.

High Energy Astrophysics International Data Camp

INTERESTS

Julia - Computer science - Sewing clothes and accessories -