

## GOAL

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Career in data science and astrophysics and cosmology possibly in:

- Fundamental Research
- Applied space science
- Industrial Research and Development

## SKILLS

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

## WHO AM I + PROJECTS

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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.

### 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 setup, NFS, MapReduce, NLP: word2vec + Cosine Similarity**]
- Carrom Tournament Bot [**Telegram Bot API, Docker, MySQL**]

## EDUCATION

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### 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

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**Julia - Sewing clothes and accessories -**