

SKILLS

Python	3+ yrs
Linux	2+ yrs
FORTRAN	1+ yrs
IDL	1+ yrs
Matlab	1+ yrs

CONTACT

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BASSEL FARHAT

PROFILE

Astrophysicist with strong theoretical background and a passion for coding.

Specialized in running magnetohydrodynamic simulations and in physical interpretation and statistical analysis of data, experienced with coding in multiple languages most notable Python.

Fast learner. Highly motivated to work in a team.

WORK EXPERIENCE

Research project under the supervision of Prof. Dr. Robi Banerjee

Performing Initial simulations for the thesis

Gained skills: Running numerical simulations on a remote cluster.

Master thesis under the supervision of Prof. Dr. Robi **Baneriee**

Density Perturbation from Primordial Magnetic

Fields

Gained skills: Performing simulation using the MHD code: Flash. Outcome: Two papers to be published in 2021

Student Assistant Introduction to Astronomy 1-2 April 2020 - NOW

March - July 2020

July 2020 - NOW

EDUCATION

2019 - 2021

M. Sc. Physics.

Universität Hamburg

Main thematic priority of the master studies was Astrophysics with main interest on the theoretical studies of stellar evolution and star formation. Besides stellar studies, I also enjoyed studying experimental courses such as applications of general relativity and astro-particle physics.

The topic of my master thesis was density perturbations in primordial magnetic fields. I performed 3D magnetohydrodynamic simulations to find out the upper limits on density fluctuations and to monitor heating during different cosmological epochs.

Some relevant modules (grade):

Cosmology (1.7)

Chemical Evolution of the Universe (1.7)

Experimental Astroparticle Physics (1.3)

Arabic native English advance French bilingual

advance

LANGUAGES

German

2014 - 2017

B. Sc. Physics.

Lebanese University, Fanar, Lebanon

ADDITIONAL SKILLS

Online Classes

I stay up to date with the fast evolving coding languages by taking online courses. For physics I read online journals such as MNRAS and the Astrophysical journal in addition to the online studies.

Leadership

Class representative during Bachelors

REFERENCES

Prof. Dr. Robi Banerjee

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CERTIFICATES

- Python for Data Science and Machine Learning Bootcamp
- Machine Learning with Python freeCodeCamp