

Ali HAMIE

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*21-cm cosmology, Radio/Optical surveys, Galaxy clusters,
Radio interferometry, map-making, map/image processing*

EDUCATION

2019–2021	Toulouse III University (Paul Sabatier) – Toulouse FRANCE <i>Master's degree in Astrophysics, Space Sciences, and Planetology</i> Relevant modules: Extragalactic astrophysics and cosmology, Galaxy physics, General Relativity, Radiative processes — Instrumentation in astrophysics, Tools for reducing data, Numerical simulations, Signal and data processing — projects in AGN modelization, radiative transfer, space dynamics, estimation
2015–2019	Toulouse III University (Paul Sabatier) – Toulouse FRANCE <i>Bachelor's degree in Physics – L1 & L2 at Lebanese University</i>
2010–2011	Saint Joseph University – Beirut LEBANON <i>First year of undergraduate degree in Telecom Engineering (L1)</i> Relevant modules include: Advanced C programming, and Linear systems.

ONLINE COURSES

2021–Today	Data-driven Astronomy - University of Sydney massive data median stack, advanced cross-matching, querying and creating databases, ML for photometric redshift estimation and galaxies classification Modeling natural processes - University of Geneva Monte-Carlo, Lattice Boltzmann, Barnes-Hut galaxy merger simulation Statistics with Python Specialization - University of Michigan Data sampling, confidence intervals, hypothesis testing, fitting models C/C++ specialization - University of California Santa Cruz
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RESEARCH EXPERIENCE

Feb-Jul 2021	The Irène-Joliot Curie Lab (IJCLab) formerly LAL – Orsay FRANCE <i>Master 2 five months full time internship</i> Supervisors: Prof. Reza Ansari and Dr. Olivier Perdereau — Abstract
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- Simulating various observation strategies outcomes using the map-making software JSkyMap (C++/Shell)
- Developing an object-oriented pipeline that includes source finding, cross-matching, foreground subtraction, and post-processing large samples of images to prove required sensitivities (python)

Jan-Mai2020	Institute of Research in Astrophysics and Planetology (IRAP) – Toulouse <i>Master 1 part time internship - 4h/week - pairwork</i> Supervisors: Dr. Vincent Genot and Dr. Philippe Garnier Testing Dynamical Time Warping (DTW) algorithm on solar wind's time series
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OBSERVATION EXPERIENCE

Oct 2020	Pic du Midi Observatory – French Pyrenees FRANCE <i>Master 2 observation training - one week</i> Training in telescope use and image reduction (AstrolImageJ software)
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WORK EXPERIENCE

2011–2015 **ATS - Beirut LEBANON**
Freight Forwarder Operator - Customs Broker Assistant

TECHNICAL SKILLS

Programming	Python	●●●●●	Shell	●●●●●	C	●●●●●
	MATLAB	●●●●●	SQL	●●●●●		
IT Tools	LaTeX		Git		Wiki	
Languages	French	●●●●●	English	●●●●●		

INTERESTS AND ACTIVITIES

Photography Travel Reading/Writing

REFEREES

Prof. Reza Ansari
Internship supervisor
Paris Saclay University
IJCLab formerly LAL
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